

JOURNAL ARTICLES

Aerospace Engineering						
S. No.	Journal Name	Title of the Paper/Publication	Authors (s)	Year	Volume	Page numbers (start to end)
1.	IEEE Control Systems Letters	Containment using Incomplete Agent Information over a Digraph	Arijit Sen, Soumya Ranjan Sahoo, Mangal Kothari	2020	(IF: 2.332) Vol	pp. 614-619
2.	AIAA journal of aerospace information systems	Information-Rich Formation Tracking: A Unified Scheme of Cooperative Control and Localization	Arijit Sen, Mangal Kothari, and Soumya Ranjan Sahoo	2020	(IF: 1.32), AIAA, Vol. 17, Issue 8	pp. 390-406
3.	AIAA Journal Of Aerospace Information Systems	Autonomous Load Control and Transportation Using Multiple Quadrotors	Kuldeep Dhiman, Mangal Kothari, and Abhishek	2020	(IF: 1.32), AIAA, Vol. 17, Issue 8	pp. 417-435
4.	Journal Of Aerospace Engineering Part G	Quaternion Based Position Control of Quadrotor UAV Using Robust Nonlinear Third-Order Sliding Mode Control (TOSMC) with Disturbance Cancellation	Jitu Sanwale, Prasiddh Trivedi, Mangal Kothari, Appasaheb Malagaudanavar	2020	Vol. 234, Issue 4	pp. 997-1013
5.	Journal Of Guidance, Control, And Dynamics	Attitude Control of a Novel Tailsitter: Swiveling Biplane-Quadrotor	Nidhish Raj, Ravi Banavar, Abhishek, and Mangal Kothari	AIAA, 2020	Vol. 43	pp. 599-607, (IF: 1.856)
Biological Sciences and Bioengineering						
6.	Biomaterials Science	Development of mechanism-based antibacterial synergy between Fmoc-phenylalanine hydrogel and aztreonam	Gahane A.Y., Singh V., Kumar A., Kumar Thakur A.	2020	8	1996-2006
7.	Journal of Biomedical	A minimally-invasive cryogel based approach for the	Kumari J., Teotia A.K., Karande A.A.,	2020	108	1022-1032

	Materials Research - Part B Applied Biomaterials	development of human ectopic liver in a mouse model	Kumar A.			
8.	Proceedings of the National Academy of Sciences of the United States of America	Decomposing loss aversion from gaze allocation and pupil dilation	Sheng F., Ramakrishnan A., Seok D., Zhao W.J., Thelaus S., Cen P., Platt M.L.	2020	117	-
9.	Biochemical and Biophysical Research Communications	Classification, characterization and structural analysis of sugar nucleotidyltransferase family of enzymes	Bais V.S., Aggarwal P., Bharadwaj P., Prakash B.	2020	525	780-785
10.	Cancer Medicine	MicroRNA-based recombinant AAV vector assembly improves efficiency of suicide gene transfer in a murine model of lymphoma	Khan N., Cheemadan S., Saxena H., Bammidi S., Jayandharan G.R.	2020	9	3188-3201
11.	Molecular Therapy - Methods and Clinical Development	AAV6 Vexosomes Mediate Robust Suicide Gene Delivery in a Murine Model of Hepatocellular Carcinoma	Khan N., Maurya S., Bammidi S., Jayandharan G.R.	2020	17	497-504
12.	Journal of Nanoparticle Research	Biofabrication of gold nanoparticles with bone remodeling potential: an in vitro and in vivo assessment	Singh S., Gupta A., Qayoom I., Teotia A.K., Gupta S., Padmanabhan P., Dev A., Kumar A.	2020	22	-
13.	Nature	Molecular basis of β -arrestin coupling to formoterol-bound β 1-adrenoceptor	Lee Y., Warne T., Nehmé R., Pandey S., Dwivedi-Agnihotri H., Chaturvedi M., Edwards P.C., García-Nafría J.,	2020	583	862-866

			Leslie A.G.W., Shukla A.K., Tate C.G.			
14.	Journal of Biological Chemistry	Genetically encoded intrabody sensors report the interaction and trafficking of b-arrestin 1 upon activation of G-protein–coupled receptors	Baidya M., Kumari P., Dwivedi- Agnihotri H., Pandey S., Sokrat B., Sposini S., Chaturvedi M., Srivastava A., Roy D., Hanyaloglu A.C., Bouvier M., Shukla A.K.	2020	295	10153- 10167
15.	Journal of Cell Science	Perinuclear mitochondrial clustering, increased ROS levels, and HIF1 are required for the activation of HSF1 by heat stress	Agarwal S., Ganesh S.	2020	133	-
16.	Virus Research	Exosome-associated SUMOylation mutant AAV demonstrates improved ocular gene transfer efficiency in vivo	Maurya S., Jayandharan G.R.	2020	283	-
17.	DMM Disease Models and Mechanisms	A Drosophila model of oral peptide therapeutics for adult intestinal stem cell tumors	Bajpai A., Quazi T.A., Tang H.-W., Manzar N., Singh V., Thakur A., Ateeq B., Perrimon N., Sinha P.	2020	13	-
18.	Protein Expression and Purification	Purification of native CCL7 and its functional interaction with selected chemokine receptors	Goncharuk M.V., Roy D., Dubinnyi M.A., Nadezhdin K.D., Srivastava A., Baidya M., Dwivedi- Agnihotri H., Arseniev A.S., Shukla A.K.	2020	171	-
19.	Biophysical Journal	Mechanism of Nucleotidyltransfer Reaction and Role of Mg ²⁺ Ion in Sugar Nucleotidyltransferases	Vithani N., Prakash B., Nair N.N.	2020	119	619-627

20.	Neurogastroenterology and Motility	Volume and position change of the stomach during gastric accommodation and emptying: A detailed three-dimensional morphological analysis based on MRI	Banerjee S., Pal A., Fox M.	2020	32	-
21.	Biomaterials	Exosome laden oxygen releasing antioxidant and antibacterial cryogel wound dressing OxOBand alleviate diabetic and infectious wound healing	Shiekh P.A., Singh A., Kumar A.	2020	249	-
22.	Journal of the American Ceramic Society	Effect of Zn and Co doping on antibacterial efficacy and cytocompatibility of spark plasma sintered hydroxyapatite	Bhattacharjee A., Hassan R., Gupta A., Verma M., Murugan P.A., Sengupta P., Saravanan M., Manna I., Balani K.	2020	103	4090-4100
23.	New Journal of Chemistry	Luminescent EuIII and TbIIImetallic complexes of N,N'-heterocyclic bases and tolfenamic acid: structures, photophysical aspects and biological activity	Abbas Z., Singh P., Dasari S., Sivakumar S., Patra A.K.	2020	44	15685-15697
24.	EMBO Reports	Key phosphorylation sites in GPCRs orchestrate the contribution of β -Arrestin 1 in ERK1/2 activation	Baidya M., Kumari P., Dwivedi-Agnihotri H., Pandey S., Chaturvedi M., Stepniewski T.M., Kawakami K., Cao Y., Laporte S.A., Selent J., Inoue A., Shukla A.K.	2020	21	-
25.	Science Advances	Distinct phosphorylation sites in a prototypical GPCR differently orchestrate β -arrestin interaction, trafficking, and signaling	Dwivedi-Agnihotri H., Chaturvedi M., Baidya M., Stepniewski T.M., Pandey S., Maharana	2020	6	-

			J., Srivastava A., Caengprasath N., Hanyaloglu A.C., Selent J., Shukla A.K.			
26.	Biomedical Materials (Bristol)	Enhanced bone mineralization using hydroxyapatite-based ceramic bone substitute incorporating Withania somnifera extracts	Qayoom I., Teotia A.K., Meena M., Singh P., Mishra A., Singh S., Kumar A.	2020	15	-
27.	Structure	Crystal Structure of β -Arrestin 2 in Complex with CXCR7 Phosphopeptide	Min K., Yoon H.-J., Park J.Y., Baidya M., Dwivedi-Agnihotri H., Maharana J., Chaturvedi M., Chung K.Y., Shukla A.K., Lee H.H.	2020	28	1014- 10200000
28.	ACS Applied Materials and Interfaces	Improved bone regeneration in rabbit bone defects using 3d printed composite scaffolds functionalized with osteoinductive factors	Kumar A., Teotia A.K., Dienel K., Qayoom I., Van Bochove B., Gupta S., Partanen J., Seppälä J.	2020	12	48340- 48356
29.	Nanotechnolo gy	Redispersion of cryoaggregated gold nanoparticle by means of laser irradiation and effect on biological interactions	Mishra A., Shaikh S., Kumar A.	2020	31	-
30.	RSC Advances	Advances in chemistry and composition of soft materials for drug releasing contact lenses	Chatterjee S., Upadhyay P., Mishra M., Srividya M., Akshara M.R., Kamali N., Zaidi Z.S., Iqbal S.F., Misra S.K.	2020	10	36751- 36777
31.	Tissue Engineering - Part A	Long-term response to a bioactive biphasic biomaterial in the femoral neck of osteoporotic rats	Raina D.B., Širka A., Qayoom I., Teotia A.K., Liu Y.,	2020	26	1042-1051

			Tarasevicius S., Tanner K.E., Isaksson H., Kumar A., Tägil M., Lidgren L.			
32.	Molecular Cell	Transmitting the Signal: Structure of the β 1-Adrenergic Receptor-Gs Protein Complex	Pandey S., Saha S., Shukla A.K.	2020	80	3-5
33.	Neoplasia (United States)	Targeting AGTR1/NF- κ B/CXCR4 axis by miR-155 attenuates oncogenesis in glioblastoma	Singh A., Srivastava N., Yadav A., Ateeq B.	2020	22	497-510
34.	Biomechanics and Modeling in Mechanobiology	Prediction of stenosis behaviour in artery by neural network and multiple linear regressions	Eswari J.S., Majdoubi J., Naik S., Gupta S., Bit A., Rahimi-Gorji M., Saleem A.	2020	19	1697-1711
35.	Analytical Methods	Analytical validation of an ATR-FTIR based method for quantifying the amount of polysorbate 80 adsorbed on PLGA nanoparticles	Sinha N., Joshi A.S., Thakur A.K.	2020	12	5360-5366
36.	Science Advances	Inactivation-mimicking block of the epithelial calcium channel TRPV6	Bhardwaj R., Lindinger S., Neuberger A., Nadezhdin K.D., Singh A.K., Cunha M.R., Derler I., Gyimesi G., Reymond J.-L., Hediger M.A., Romanin C., Sobolevsky A.I.	2020	6	-
37.	Biochemistry	Computational Design of BH3-Mimetic Peptide Inhibitors That Can Bind Specifically to Mcl-1 or Bcl-XL: Role of Non-Hot Spot	Reddy C.N., Manzar N., Ateeq B., Sankararamakrishnan R.	2020	59	4379-4394

		Residues				
38.	ACS Applied Bio Materials	Agar-Iodine Transdermal Patches for Infected Diabetic Wounds	Tyeb S., Kumar N., Kumar A., Verma V.	2020	3	7515-7530
39.	ACS Infectious Diseases	Local and Sustained Delivery of Rifampicin from a Bioactive Ceramic Carrier Treats Bone Infection in Rat Tibia	Qayoom I., Teotia A.K., Panjla A., Verma S., Kumar A.	2020	6	2938-2949
40.	Development (Cambridge)	PLP-1 is essential for germ cell development and germline gene silencing in <i>Caenorhabditis elegans</i>	Vishnupriya R., Thomas L., Wahba L., Fire A., Subramaniam K.	2020	147	-
41.	Developmental Biology	Retinoic acid signaling regulates proliferation and lamina formation in the developing chick optic tectum	Kukreja S., Udaykumar N., Yogesh B., Sen J.	2020	467	95-107
42.	Autophagy	Glycogen: the missing link in neuronal autophagy?	Onkar A., Sheshadri D., Ganesh S.	2020	16	2102-2104
43.	Bone & Joint Research	In vivo cartilage regeneration in a multi-layered articular cartilage architecture mimicking scaffold	• Karthikeyan Rajagopal, Sowmya Ramesh, Noel Malcolm Walter, Aditya Arora, Dharendra S Katti, Vrisha Madhuri	2020	9	601-612
44.	Biomedical Nanotechnology	Role of Physicochemical Properties of Protein in Modulating the Nanoparticle-Bio interface	• Sunandan Dhar, Vishesh Sood, Garima Lohiya, Harini Deivendran, Dharendra S Katti	2020	16	1276-1295
45.	Colloids and Surfaces B: Biointerfaces	Dextran based amphiphilic nano-hybrid hydrogel system incorporated with curcumin and cerium oxide nanoparticles for wound healing	Andrabi S.M., Majumder S., Gupta K.C., Kumar A.	2020	195	-
46.	Scientific Reports	A biphasic nanohydroxyapatite/calcium	Qayoom I., Verma R., Murugan P.A.,	2020	10	-

		sulphate carrier containing Rifampicin and Isoniazid for local delivery gives sustained and effective antibiotic release and prevents biofilm formation	Raina D.B., Teotia A.K., Matheshwaran S., Nair N.N., Tägil M., Lidgren L., Kumar A.			
47.	Nature Communications	Single-cell lineage tracing by integrating CRISPR-Cas9 mutations with transcriptomic data	Zafar H., Lin C., Bar-Joseph Z.	2020	11	-
48.	Nature Communications	Multiple network properties overcome random connectivity to enable stereotypic sensory responses	Mittal A.M., Gupta D., Singh A., Lin A.C., Gupta N.	2020	11	-
49.	Nature Communications	Androgen deprivation upregulates SPINK1 expression and potentiates cellular plasticity in prostate cancer	Tiwari R., Manzar N., Bhatia V., Yadav A., Nengroo M.A., Datta D., Carskadon S., Gupta N., Sigouros M., Khani F., Poutanen M., Zoubeidi A., Beltran H., Palanisamy N., Ateeq B.	2020	11	-
50.	Biotechnology and Bioengineering	Responsive polymer-assisted 3D cryogel supports Huh7.5 as in vitro hepatitis C virus model and ectopic human hepatic tissue in athymic mice	Jayal P., Behera P., Mullick R., Ramachandra S.G., Das S., Kumar A., Karande A.	2021	118	1286-1304
51.	European Polymer Journal	Evaluation of polymeric aligned NGCs and exosomes in nerve injury models in diabetic peripheral neuropathy condition	Singh A., Shiekh P.A., Qayoom I., Srivastava E., Kumar A.	2021	146	-
52.	Surface and Coatings Technology	Preparation and properties of electrodeposited Ni-B-V2O5 composite coatings	Waware U.S., Nazir R., Prasad A., Hamouda A.M.S., Pradhan A.K., Alshehri M., Syed	2021	409	-

			R., Malik A.			
53.	Carbon Letters	Chickpea peel waste as sustainable precursor for synthesis of fluorescent carbon nanotubes for bioimaging application	Singh V., Chatterjee S., Palecha M., Sen P., Ateeq B., Verma V.	2021	31	117-123
54.	Materials Science and Engineering C	Stable sub-100 nm PDMS nanoparticles as an intracellular drug delivery vehicle	Maparu A.K., Singh P., Rai B., Sharma A., Sivakumar S.	2021	119	-
55.	Materials Science and Engineering C	Biomimetic algal polysaccharide coated 3D nanofibrous scaffolds promote skin extracellular matrix formation	Singh P., Maparu A.K., Shah S., Rai B., Sivakumar S.	2021	119	-
56.	Journal of Molecular Biology	Nucleation-dependent Aggregation Kinetics of Yeast Sup35 Fragment GNNQQNY	Burra G., Maina M.B., Serpell L.C., Thakur A.K.	2021	433	-
57.	Protein Expression and Purification	Purification and preliminary characterization of four Rel homologues from pathogenic bacteria: Implications for species-specific inhibitor design	Hegde V., Raman A.S., Patil P.R., Prakash B.	2021	177	-
58.	FEMS Microbiology Letters	Comparative analysis of secondary metabolite gene clusters in different strains of Magnaporthe oryzae	Saha P., Sarkar A., Sabnam N., Shirke M.D., Mahesh H.B., Nikhil A., Rajamani A., Gowda M., Roy-Barman S.	2021	368	-
59.	European Polymer Journal	A coaxially structured trilayered gallic acid-based antioxidant vascular graft for treating coronary artery disease	Das A., Ahmad Shiekh P., Kumar A.	2021	143	-
60.	The FEBS Journal	Metabolic role of G protein-coupled receptor signaling in obesity and type 2 diabetes	Luiz F Barella, Shanu Jain, Takefumi Kimura, Sai P Pydi	2021	288	2622-2644
Chemical Engineering						
61.	Journal of	d-SEAMS: Deferred Structural	Goswami R.,	2020	60	2169-2177

	Chemical Information and Modeling	Elucidation Analysis for Molecular Simulations	Goswami A., Singh J.K.			
62.	Physical Review E	Stability of gravity-driven free-surface flow past a deformable solid: The role of depth-dependent modulus	Mandloi S., Shankar V.	2020	101	-
63.	Electrochimica Acta	Efficient bio-electroreduction of CO ₂ to formate on a iron phthalocyanine-dispersed CDC in microbial electrolysis system	Singh S., Noori M.T., Verma N.	2020	338	-
64.	International Journal of Biological Macromolecules	Graphite modified sodium alginate hydrogel composite for efficient removal of malachite green dye	Verma A., Thakur S., Mamba G., Prateek, Gupta R.K., Thakur P., Thakur V.K.	2020	148	1130-1139
65.	Solar Energy Materials and Solar Cells	Role of PC60BM in defect passivation and improving degradation behaviour in planar perovskite solar cells	Ranjan R., Usmani B., Pali S., Ranjan S., Singh A., Garg A., Gupta R.K.	2020	207	-
66.	Nanotoxicology	Fate of GdF ₃ nanoparticles-loaded PEGylated carbon capsules inside mice model: a step toward clinical application	Mahaling B., Verma M., Mishra G., Chaudhuri S., Dutta D., Sivakumar S.	2020	14	577-594
67.	New Journal of Chemistry	Facile functionalization of boron nitride (BN) for the development of high-performance asymmetric supercapacitors	Maity C.K., Sahoo S., Verma K., Behera A.K., Nayak G.C.	2020	44	8106-8119
68.	Journal of Physics Condensed Matter	Effect of sodium pyrophosphate and understanding microstructure of aqueous LAPONITE® dispersion using dissolution study	Suman K., Mittal M., Joshi Y.M.	2020	32	-
69.	Catalysis Today	Cu-Fe bimetal-carbon nanofibrous catalytic beads for enhanced oxidation of dichlorvos pesticide and simultaneous	Kumar A., Verma N.	2020	348	194-202

		reduction of Cr(VI) in wet air				
70.	Macromolecules	Rheological Behavior of Aqueous Poly(vinyl alcohol) Solution during a Freeze-Thaw Gelation Process	Joshi N., Suman K., Joshi Y.M.	2020	53	3452-3463
71.	Phys. Rev. Fluids	Gravity-driven thermoviscous liquid film down a heated or cooled vertical cylinder	S. Khanum & N. Tiwari	2020	094005, (Editor's suggestion)	5
72.	Phys. Fluids	Flow and stability of a gravity-driven thin film over a locally heated porous wall	T. C. Kumawat & N. Tiwari	2020	092106	32
73.	Prog. Nucl. En.	Optimization of controlling parameters of plasma torch aerosol generator and characteristics of synthesized metal oxide aerosols in context of NAF program	A.K.Dwivedi, ManishKumar, Gaurav Mishra, Manish Joshi, Arshad Khan, Naveen Tiwari, Sidyant Kumar, T.Saud, B.K.Saprac, S.N.Tripathi	2020	103311	123
74.	Phys. Fluids	Evolution of a thin film down an incline: A new perspective	U. Ranganathan, G. Chattopadhyay & N. Tiwari	2020	013603	32
75.	Materials Science in Semiconductor Processing	Interface mechanisms involved in a-IGZO based dual gate ISFET pH sensor using Al ₂ O ₃ as the top gate dielectric	N. Kumar, D. Bhatt, M. Sutradhar, S. Panda	2020	105239	119
76.	J. Phys. Chem. C.	Exploring the Anomalous Phase Behavior of High-Pressure Ices in Diamond Confinement	Goswami A., Singh J.K.	2020	124	5460-5468
77.	App. Surf. Sci.	Electronic properties and superior CO ₂ capture selectivity of metal nitride (XN) and phosphide (XP) (X = Al, Ga and In) sheets	Yadav V.K., Mir S., Singh J.K.	2020	527	146445

78.	Scientific Reports	Validation of Salivary Markers, IL-1 β , IL-8 and Lgals3bp for Detection of Oral Squamous Cell Carcinoma in an Indian Population	Singh P., Verma J.K., Singh J.K.	2020	10	7365
79.	ACS Omega	Recent advances in the carrier mobility of two-dimensional materials: a theoretical perspective	Mir S., Yadav V.K., Singh J.K.	2020	5	14203-14211
80.	Energy Fuels	Selective Separation of CO ₂ from Flue Gas using Carbon and Boron Nitride Nanotubes as a Membrane	Maurya M., Sappidi P., Singh J.K.	2020	34	7223-7231
81.	Phys. Chem. Chem. Phys.	A Simple Molecular Design for Tunable Two-Dimensional Imine Covalent Organic Frameworks for Optoelectronic Applications	Yadav V.K., Mir S., Mishra V., Gopakumar T.G., Singh J.K.	2020	22	21360
82.	J. Chem. Phys.	Seeding Method for Ice Nucleation under Shear	Goswami A., Dalal I.S., Singh J.K.	2020	153	094502
83.	ACS Appl. Mater. Interfaces	Rationally Designed Semi-Conducting 2D Surface Confined Metal Organic Network	Mishra V., Mir S., Singh J.K., Gopakumar T.G.	2020	12	51122-51132
84.	Energy Fuels	High Throughput Screening of Metal-Organic Frameworks for Ethane-Ethylene Separation Using Machine Learning Technique	Halder P., Singh J.K.	2020	34	14591-14597
85.	Phys. Rev. Fluids	Gravity-driven thermoviscous liquid film down a heated or cooled vertical cylinder	S. Khanum & N. Tiwari	2020	094005, (Editor's suggestion)	5
86.	Phys. Fluids	Flow and stability of a gravity-driven thin film over a locally heated porous wall	T. C. Kumawat & N. Tiwari	2020	092106	32
87.	Prog. Nucl. En.	Optimization of controlling parameters of plasma torch aerosol generator and characteristics of synthesized	A.K.Dwivedi, ManishKumar, Gaurav Mishra, Manish Joshi,	2020	103311	123

		metal oxide aerosols in context of NAF program	Arshad Khan, Naveen Tiwari, Sidyant Kumar, T.Saud, B.K.Saprac, S.N.Tripathi			
88.	Phys. Fluids	Evolution of a thin film down an incline: A new perspective	U. Ranganathan, G. Chattopadhyay & N. Tiwari	2020	013603	32
89.	Materials Science in Semiconductor Processing	Interface mechanisms involved in a-IGZO based dual gate ISFET pH sensor using Al ₂ O ₃ as the top gate dielectric	N. Kumar, D. Bhatt, M. Sutradhar, S. Panda	2020	105239	119
90.	J. Phys. Chem. C.	Exploring the Anomalous Phase Behavior of High-Pressure Ices in Diamond Confinement	Goswami A., Singh J.K.	2020	124	5460-5468
91.	App. Surf. Sci.	Electronic properties and superior CO ₂ capture selectivity of metal nitride (XN) and phosphide (XP) (X = Al, Ga and In) sheets	Yadav V.K., Mir S., Singh J.K.	2020	527	146445
92.	Scientific Reports	Validation of Salivary Markers, IL-1 β , IL-8 and Lgals3bp for Detection of Oral Squamous Cell Carcinoma in an Indian Population	Singh P., Verma J.K., Singh J.K.	2020	10	7365
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94.	Energy Fuels	Selective Separation of CO ₂ from Flue Gas using Carbon and Boron Nitride Nanotubes as a Membrane	Maurya M., Sappidi P., Singh J.K.	2020	34	7223-7231
95.	Phys. Chem. Chem. Phys.	A Simple Molecular Design for Tunable Two-Dimensional Imine Covalent Organic Frameworks for Optoelectronic Applications	Yadav V.K., Mir S., Mishra V., Gopakumar T.G., Singh J.K.	2020	22	21360

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98.	Energy Fuels	High Throughput Screening of Metal-Organic Frameworks for Ethane-Ethylene Separation Using Machine Learning Technique	Halder P., Singh J.K.	2020	34	14591-14597
99.	Journal of Fluid Mechanics	Electrostatic forcing of thin leaky dielectric films under periodic and steady fields	Pillai D.S., Narayanan R.	2020	890	-
100.	Physics of Fluids	Stability of flow in a deformable channel with an unrestrained boundary	Mandloi S., Shankar V.	2020	32	-
101.	Frontiers in Chemistry	Should All Electrochemical Energy Materials Be Isomaterially Heterostructured to Optimize Contra and Co-varying Physicochemical Properties?	Pala R.G.S.	2020	8	-
102.	Energy and Fuels	Selective Separation of CO ₂ from Flue Gas Using Carbon and Boron Nitride Nanotubes as a Membrane	Maurya M., Sappidi P.K., Singh J.K.	2020	34	7223-7231
103.	Sensors and Actuators, B: Chemical	Spermine biomarker of cancerous cells voltammetrically detected on a poly(β -cyclodextrin) - electropolymerized carbon film dispersed with Cu - CNFs	Shrivastava S., Bairagi P.K., Verma N.	2020	313	-
104.	Physical Review Fluids	Analysis of mixing in a helical microchannel	Rajbanshi P., Ghatak A.	2020	5	-
105.	Journal of Environmental Chemical Engineering	Variable air gap membrane distillation for hybrid solar desalination	Shirsath G.B., Muralidhar K., Pala R.G.S.	2020	8	-
106.	Applied	Development of	Goel S., Garg A.,	2020	126	-

	Physics A: Materials Science and Processing	RGO/BaFe12O19-based composite medium for improved microwave absorption applications	Gupta R.K., Dubey A., Prasad N.E., Tyagi S.			
107.	Microchimica Acta	NaGdF4:Yb,Er-Ag nanowire hybrid nanocomposite for multifunctional upconversion emission, optical imaging, MRI and CT imaging applications	Yamini S., Gunaseelan M., Kumar G.A., Singh S., Dannangoda G.C., Martirosyan K.S., Sardar D.K., Sivakumar S., Girigoswami A., Senthilselvan J.	2020	187	-
108.	Reaction Kinetics, Mechanisms and Catalysis	Kinetics of steam reforming of methane on Rh–Ni/MgAl2O4 catalyst	Katheria S., Kunzru D., Deo G.	2020	130	91-101
109.	International Journal of Thermal Sciences	Pulsatile flow of power-law fluids over a heated cylinder: Flow and heat transfer characteristics	Gupta S., Patel S.A., Chhabra R.P.	2020	152	-
110.	Electroanalysis	Mathematical Modelling of a Non-enzymatic Amperometric Electrochemical Biosensor for Cholesterol	Goyal A., Bairagi P.K., Verma N.	2020	32	1251-1262
111.	Chemosphere	Efficient electro-oxidation of diclofenac persistent organic pollutant in wastewater using carbon film-supported Cu-rGO electrode	Kumar A., Omar R.A., Verma N.	2020	248	-
112.	Swarm Intelligence	A simplified multi-objective particle swarm optimization algorithm	Trivedi V., Varshney P., Ramteke M.	2020	14	83-116
113.	Physical Review E	Fingering instability during fracture of a gel block subjected to shear loading	Kundan K.K., Ghatak A.	2020	102	-

114.	Journal of Rheology	On the universality of the scaling relations during sol-gel transition	Suman K., Joshi Y.M.	2020	64	863-877
115.	Journal of Materials Science: Materials in Electronics	Modified polyol-mediated synthesis of Sr- and W-substituted La ₂ Mo ₂ O ₉ solid electrolyte for solid oxide fuel cells	Pandey R., Singh S., Singh P.	2020	31	11325-11335
116.	Chemical Engineering Research and Design	Design and Control of a Vapour Recompression C3 Splitter	Kumar V., Anand A., Kaistha N.	2020	159	410-423
117.	Journal of Food Process Engineering	Heating of liquid foods in cans: Effects of can geometry, orientation, and food rheology	Borah R., Gupta S., Mishra L., Chhabra R.P.	2020	43	-
118.	European Journal of Inorganic Chemistry	Bimetallic Europium and Terbium Complexes Containing Substituted Terpyridines and the NSAID Drug Tolfenamic Acid: Structural Differences, Luminescence Properties, and Theranostic Applications	Dasari S., Maparu A.K., Abbas Z., Kumar P., Birla H., Sivakumar S., Patra A.K.	2020	2020	2998-3009
119.	Langmuir	Investigating the Effect of Antibody-Antigen Reactions on the Internal Convection in a Sessile Droplet via Microparticle Image Velocimetry and DLVO Analysis	Rathaur V.S., Kumar S., Panigrahi P.K., Panda S.	2020	36	8826-8838
120.	Microfluidics and Nanofluidics	Effect of active mixing on capture efficiency in heterogeneous microfluidic immunosensor	Verma S., Panda S.	2020	24	-
121.	Journal of the American Ceramic Society	Effect of Zn and Co doping on antibacterial efficacy and cytocompatibility of spark plasma sintered hydroxyapatite	Bhattacharjee A., Hassan R., Gupta A., Verma M., Murugan P.A., Sengupta P., Saravanan M., Manna I., Balani K.	2020	103	4090-4100

122.	International Journal of Hydrogen Energy	Simultaneous hydrogen generation and COD reduction in a photoanode-based microbial electrolysis cell	Pophali A., Singh S., Verma N.	2020	45	25985-25995
123.	New Journal of Chemistry	Luminescent EuIII and TbIII bimetallic complexes of N,N'-heterocyclic bases and tolfenamic acid: structures, photophysical aspects and biological activity	Abbas Z., Singh P., Dasari S., Sivakumar S., Patra A.K.	2020	44	15685-15697
124.	ACS Applied Electronic Materials	Sensitivity Enhancement of Dual Gate Field-Effect Transistors Using Stacked Bottom Gate Dielectrics	Bhatt D., Panda S.	2020	2	2699-2706
125.	Physical Review Fluids	Gravity-driven thermoviscous liquid film down a heated or cooled vertical cylinder	Khanum S., Tiwari N.	2020	5	-
126.	International Journal of Hydrogen Energy	Hybrid hollow structures for hydrogen storage	Gupta A., Shervani S., Rani P., Sivakumar S., Balani K., Subramaniam A.	2020	45	24076-24082
127.	Journal of Chemical Physics	Seeding method for ice nucleation under shear	Goswami A., Dalal I.S., Singh J.K.	2020	153	-
128.	New Journal of Chemistry	Ammonolysis synthesis of nickel molybdenum nitride nanostructures for high-performance asymmetric supercapacitors	Kumar R., Bhuvana T., Sharma A.	2020	44	14067-14074
129.	Physics of Fluids	Flow and stability of a gravity-driven thin film over a locally heated porous wall	Chand Kumawat T., Tiwari N.	2020	32	-
130.	Journal of Rheology	Analysis of linear viscoelasticity of aging soft glasses	Shukla A., Shanbhag S., Joshi Y.M.	2020	64	1197-1207
131.	Catalysis Today	Oxidative dehydrogenation of propane over alumina supported	Sandupatla A.S., Ray K., Thaosen P.,	2020	354	176-182

		vanadia catalyst – Effect of carbon dioxide and secondary surface metal oxide additive	Sivananda C., Deo G.			
132.	Journal of Physical Chemistry C	Probing the Interface Activation in Designing Defect-Free Multilayered Polymer Nanocomposites for Dielectric Capacitor Applications	Prateek, Bhunia R., Garg A., Gupta R.K.	2020	124	22914-22924
133.	Langmuir	Liquid Spreading Induced by in Situ Generation of Metallic Nanoparticles	Singh N., Jain Y., Kishore K., Ghatak A.	2020	36	12237-12246
134.	Applied Surface Science	Electronic properties and superior CO ₂ capture selectivity of metal nitride (XN) and phosphide (XP) (X = Al, Ga and In) sheets	Yadav V.K., Mir S.H., Singh J.K.	2020	527	-
135.	Langmuir	Self-Propelled Janus Colloids in Shear Flow	Si B.R., Patel P., Mangal R.	2020	36	11888-11898
136.	Heat Transfer Engineering	Thermal Mixing of Impinging Laminar Streams of Shear-Thinning Fluids	Maurya A., Tiwari N., Chhabra R.P.	2020	41	1576-1595
137.	Physical Chemistry Chemical Physics	A simple molecular design for tunable two-dimensional imine covalent organic frameworks for optoelectronic applications	Yadav V.K., Mir S.H., Mishra V., Gopakumar T.G., Singh J.K.	2020	22	21360-21368
138.	Rheologica Acta	Kinetic model for a sol-gel transition: application of the modified Bailey criterion	Suman K., Joshi Y.M.	2020	59	745-753
139.	Journal of Energy Storage	Binder free high performance hybrid supercapacitor device based on nickel ferrite nanoparticles	Mordina B., Kumar R., Neeraj N.S., Srivastava A.K., Setua D.K., Sharma A.	2020	31	-
140.	Process Safety and Environmental Protection	Electrolyte-free electro-oxidation of aqueous glyphosate: CuPc-ACF electrode and optimization of operating parameters	Kumar A., Shrivastava S., Verma N., Hsueh C.-C., Chang C.-T.,	2020	142	260-271

			Chen B.-Y.			
141.	Fuel	Sequential desulfurization of thiol compounds containing liquid fuels: Adsorption over Ni-doped carbon beads followed by biodegradation using environmentally isolated <i>Bacillus zhangzhouensis</i>	Omar R.A., Verma N., Arora P.K.	2020	277	-
142.	Applied Thermal Engineering	Buoyancy-driven melting and heat transfer around a horizontal cylinder in square enclosure filled with phase change material	Memon A., Mishra G., Gupta A.K.	2020	181	-
143.	Physical Chemistry Chemical Physics	Design of iso-material heterostructures of TiO ₂ : Via seed mediated growth and arrested phase transitions	De D.S., Behara D.K., Saha S., Kumar A., Subramaniam A., Sivakumar S., Pala R.G.S.	2020	22	25366-25379
144.	Energy and Fuels	High-Throughput Screening of Metal-Organic Frameworks for Ethane-Ethylene Separation Using the Machine Learning Technique	Halder P., Singh J.K.	2020	34	14591-14597
145.	Separation and Purification Technology	Efficient microfiltration of oil-water emulsion using ACF-supported and GO-dispersed RF membrane	George J.K., Yadav A., Verma N.	2020	251	-
146.	Materials Science in Semiconductor Processing	Interface mechanisms involved in a-IGZO based dual gate ISFET pH sensor using Al ₂ O ₃ as the top gate dielectric	Kumar N., Bhatt D., Sutradhar M., Panda S.	2020	119	-
147.	ACS Applied Materials and Interfaces	Rationally Designed Semiconducting 2D Surface-Confined Metal-Organic Network	Mishra V., Mir S.H., Singh J.K., Gopakumar T.G.	2020	12	51122-51132
148.	ChemElectroChem	Activated Porous Highly Enriched Platinum and Palladium Electrocatalysts from Dealloyed	Sahu A., Mondal K., Pala R.G.	2020	7	4405-4416

		Noncrystalline Alloys for Enhanced Hydrogen Evolution				
149.	Physics of Fluids	Instability induced by wall deformability in sliding Couette flow	Patne R.	2020	32	-
150.	Journal of Non-Newtonian Fluid Mechanics	Numerical simulation of blood flow modeled as a fluid-particulate mixture	Chandran K., Dalal I.S., Tatsumi K., Muralidhar K.	2020	285	-
151.	Langmuir	Signatures of Overaging in an Aqueous Dispersion of Carbopol	Agarwal M., Kaushal M., Joshi Y.M.	2020	36	14849-14863
152.	BMC Cancer	Emergence of spatio-temporal variations in chemotherapeutic drug efficacy: in-vitro and in-Silico 3D tumour spheroid studies	Sheraton M.V., Chiew G.G.Y., Melnikov V., Tan E.Y., Luo K.Q., Verma N., Slood P.M.A.	2020	20	-
153.	Journal of Energy Storage	A facile synthesis of boron nitride supported zinc cobalt sulfide nano hybrid as high-performance pseudocapacitive electrode material for asymmetric supercapacitors	Maity C.K., Goswami N., Verma K., Sahoo S., Nayak G.C.	2020	32	-
154.	Bulletin of Materials Science	Hydrophobic recovery of cross-linked polydimethylsiloxane films and its consequence in soft nano patterning	Bhandaru N., Agrawal N., Banik M., Mukherjee R., Sharma A.	2020	43	-
155.	Scientific Reports	Validation of Salivary Markers, IL-1 β , IL-8 and Lgals3bp for Detection of Oral Squamous Cell Carcinoma in an Indian Population	Singh P., Verma J.K., Singh J.K.	2020	10	-
156.	International Journal of Quantum	Ab initio Dynamics of Gas-phase and Aqueous-phase Hydrolysis of ATP	Raghav Saxena, A. V. B. K. Sai Phani Kumar, Raghvendra	2021	e26615	121(10)

	Chemistry		Singh, and Vishal Agarwal			
157.	ACS Agric. Sci. Technol.	Rhizobacteria and Acylated Homoserine Lactone-Based Nanobiofertilizer to Improve Growth and Pathogen Defense in Cicerarietinum and Triticum aestivum Plants	Gahoi P, Omar R.A., Verma, N., Gupta G.	2021	3	240–25
158.	Int. J. Heat Mass Trans.	Buoyancy effects in vertical 2-D and 3-D T-channels on the onset of flow reversal of power-law fluids in the side branch	A. Maurya, N. Tiwari & R. P. Chhabra	2021	121314	174
159.	Int. J. Thermal Sci.	Controlling the flow and heat transfer characteristics of power-law fluids in T-junctions using a rotating cylinder	A. Maurya, N. Tiwari & R. P. Chhabra	2021	106854	163
160.	J. Fluids Eng.	Forced Convective Flow of Bingham Plastic Fluids in a Branching Channel With the Effect of T-Channel Branching Angle	A. Maurya, N. Tiwari & R. P. Chhabra	2021	051201	143
161.	J. Fluids Eng.	Flow of Power-Law Fluids Past a Rotating Cylinder at High Reynolds Numbers	P. Thakur, N. Tiwari & R. P. Chhabra	2021	101301	143
162.	Materials Science and Engineering C	Stable sub-100 nm PDMS nanoparticles as an intracellular drug delivery vehicle	Maparu A. K., Singh P., Rai B., Sharma A., Sivakumar S.	2021	119	-
163.	Dalton Transactions	Luminescent naphthalimide-tagged ruthenium (ii)–arene complexes: cellular imaging, photocytotoxicity and transferrin binding	Srivastava P., Verma M., Kumar A., Srivastava P., Mishra R., Sivakumar S., Patra A. K.	2021	50	3629-3640
164.	Combinatorial chemistry & high throughput	Therapeutic Properties of PDMS Nanoparticles: A Promising New Drug Delivery Vehicle Against Inflammatory Conditions	Ajitha A.A., Sivakumar S., Viswanathan G., Baby S., Biju P.G.	2021	-	-

	screening					
165.	Journal of Materials Research and Technology	Radiation-induced effects on micro-scratch of ultra high molecular weight polyethylene biocomposites	Nayak C., Ariharan S., Kundu B., Singh S., Sivakumar S., Balla V. K., Balani K.	2021	11	2277-2293
166.	Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy	Luminescent lanthanide(III) complexes of DTPA-bis(amidophenyl-terpyridine) for bioimaging and phototherapeutic applications	Dasari S., Singh S., Abbas Z., Sivakumar S., Patra A. K.	2021	256	-
167.	Catalysis Letters	Selective Mesitylene Oxidative Coupling Reaction by Metastructured Electrocatalyst Comprised of Carbonaceous Scaffold Coated with Pd Derived from Zeolitic Imidazole Framework	Sahu A., Sivakumar S., Pala R.G.	2021	151	685-697
168.	Powder Technology	Quantitative DEM simulation of pellet and sinter particles using rolling friction estimated from image analysis	Tripathi A., Kumar V., Agarwal A., Tripathi A., Basu S., Chakrabarty A., Nag S.	2021	380	288-302
169.	Journal of Electronic Materials	Influence of Ba Doping on the Electrical Behaviour of $\text{La}_{0.9}\text{Sr}_{0.1}\text{Al}_{0.9}\text{Mg}_{0.1}\text{O}_{3-\delta}$ System for a Solid Electrolyte	Verma O.N., Singh S., Singh V.K., Najim M., Pandey R., Singh P.	2021	50	1010-1021
170.	Physics of Fluids	Phenomenological model of viscoelasticity for systems undergoing sol-gel transition	Suman K., Shanbhag S., Joshi Y.M.	2021	33	-
171.	Physical Review E	Theory for size segregation in flowing granular mixtures based on computation of forces on a single large particle	Tripathi A., Kumar A., Nema M., Khakhar D.V.	2021	103	-
172.	Physics of Fluids	Instability of ultrathin viscoelastic freestanding films	Sekhar S., Shankar V.	2021	33	-

173.	Nano Materials Science	Semiconductor based photocatalysts for detoxification of emerging pharmaceutical pollutants from aquatic systems: A critical review	Kar P., Shukla K., Jain P., Sathiyar G., Gupta R.K.	2021	3	25-46
174.	Fuel	Enhanced catalytic activity of ultrasmall NiMoW trimetallic nanocatalyst for hydrodesulfurization of fuels	Singh R., Kunzru D., Sivakumar S.	2021	288	-
175.	Journal of Physical Chemistry C	Terbium Ion-Mediated Energy Transfer in WO ₃ :Tb ³⁺ and Eu ³⁺ Phosphors for UV-Sensitized White Light Emission	Rastogi C.K., Sharma S.K., Sasmal S., Pala R.G.S., Kumar J., Sivakumar S.	2021	125	6163-6175
176.	Folia Microbiologica	Enzymatic degradation of sulphonated azo dye using purified azoreductase from facultative <i>Klebsiella pneumoniae</i>	Dixit S., Garg S.	2021	66	79-85
177.	Materials Science and Engineering C	Biomimetic algal polysaccharide coated 3D nanofibrous scaffolds promote skin extracellular matrix formation	Singh P., Maparu A.K., Shah S., Rai B., Sivakumar S.	2021	119	-
178.	Applied Mathematical Modelling	Influence of flow pulsations and yield stress on heat transfer from a sphere	Mishra G., Chhabra R.P.	2021	90	1069-1098
179.	ChemPhotoChem	Biocompatible Multifunctional Theranostic Nanoprobe for Imaging and Chemotherapy in Solid-Tumor-Bearing Mice	Rajalekshmi Dhanya C., Jeyaraman J., Sainulabdeen S., Soumya M.S., Abraham A., Sivakumar S.	2021	5	106-117
180.	Journal of Environmental Chemical Engineering	Titania modified gum tragacanth based hydrogel nanocomposite for water remediation	Sharma B., Thakur S., Mamba G., Prateek, Gupta R.K., Gupta V.K., Thakur V.K.	2021	9	-

181.	Journal of Non-Newtonian Fluid Mechanics	Electrohydrodynamic instability of confined viscoelastic liquid jets	Agrawal R., Shankar V.	2021	288	-
182.	Physics of Fluids	Solute induced jittery motion of self-propelled droplets	Dwivedi P., Si B.R., Pillai D., Mangal R.	2021	33	-
183.	Energy and Fuels	Effect of Sodium on Ni-Promoted MoS ₂ Catalyst for Hydrodesulfurization Reaction: Combined Experimental and Simulation Study	Mundotiya S., Singh R., Saha S., Kakkar R., Pal S., Kunzru D., Pala R.G.S., Sivakumar S.	2021	35	2368-2378
184.	Chemical Engineering Science	Microchannel–engraved and Cu–dispersed carbon nanocomposite film as a chemiresistive sensor for aqueous metal ions	Yadav A., Kumar A., Verma N.	2021	231	-
185.	Journal of Alloys and Compounds	Microwave absorption study of composites based on CQD@BaTiO ₃ core shell and BaFe ₁₂ O ₁₉ nanoparticles	Goel S., Tyagi A., Garg A., Kumar S., Baskey H.B., Gupta R.K., Tyagi S.	2021	855	-
186.	Solar Energy	Role of DIO vis-à-vis microstructural kinetics during thermal annealing on the performance of PTB7:PC71BM organic solar cells	Gupta S.K., Yadav J., Chaturvedi N., Ranjan R., Pali L.S., Nalwa K.S., Garg A.	2021	213	27-35
187.	Asian Journal of Chemistry	Extraction of uranium from aqueous solution of nitric acid and organic solvent using ionic liquid	Kumar P., Khanna A.	2021	33	43-48
188.	International Journal of Hydrogen Energy	Electrochemical hydrogen storage behavior of Ni-Ceria impregnated carbon micro-nanofibers	George J.K., Yadav A., Verma N.	2021	46	2491-2502
189.	Crystal Growth and Design	Size Reducing Rupture during "growth" of LnF ₃ (Ln = La, Lu, Y) Nanocrystals Due to Cogeneration of Structure and	Bhattacharya D., Sasmal S., Iyer G., Saha S., Subramaniam A.,	2021	21	94-102

		Stress	Pala R.G.S., Sivakumar S.			
190.	ACS Applied Polymer Materials	Fabrication and Characterization of Porous Poly(dimethylsiloxane) (PDMS) Adhesives	Mohania V., Deshpande T.D., Singh Y.R.G., Patil S., Mangal R., Sharma A.	2021	3	130-140
191.	International Journal of Hydrogen Energy	A dual photoelectrode-based double-chambered microbial fuel cell applied for simultaneous COD and Cr (VI) reduction in wastewater	Pophali A., Singh S., Verma N.	2021	46	3160-3170
192.	IEEE Sensors Journal	Fuzzy c-Means Clustering-Based Novel Threshold Criteria for Outlier Detection in Electronic Nose	Verma P., Sinha M., Panda S.	2021	21	1975-1981
193.	Solar Energy	Inverted PTB7-Th:PC71BM organic solar cells with 11.8% PCE via incorporation of gold nanoparticles in ZnO electron transport layer	Usmani B., Ranjan R., Prateek, Gupta S.K., Gupta R.K., Nalwa K.S., Garg A.	2021	214	220-230
194.	Electrochimica Acta	Surface-enhanced OER activity in Co ₃ V ₂ O ₈ using cyclic charge- discharge to balance electrocatalytic active site generation and degradation	Gyanprakash D. M., Gupta P.K., Sharma G.P., Pala R.G.S.	2021	367	-
195.	Chemical Communications	A nickel oxide-decorated in situ grown 3-D graphitic forest engrained carbon foam electrode for microbial fuel cells	Singh S., Pophali A., Omar R.A., Kumar R., Kumar P., Mondal D.P., Pant D., Verma N.	2021	57	879-882
Chemistry						
196.	Synlett	Facile Synthesis of Oxime Amino Ethers via Lewis Acid Catalyzed S _N 2-Type Ring Opening of Activated Aziridines with Aryl	Bhattacharyya A., Das S., Chauhan N., Biswas P.K., Ghorai M.K.	2020	31	708 - 712

		Aldehyde Oximes				
197.	Dalton Transactions	Transfer hydrogenation of alkynes into alkenes by ammonia borane over Pd-MOF catalysts	Bakuru V.R., Samanta D., Maji T.K., Kalidindi S.B.	2020	49	5024 - 5028
198.	Tetrahedron Letters	Reactivity of antipyrine and haloantipyrines in Pd-catalyzed C–H bond arylations	Sasmal A., Bera J.K., Doucet H., Soulé J.-F.	2020	61	-
199.	ACS Applied Materials and Interfaces	Functional Catechol-Metal Polymers via Interfacial Polymerization for Applications in Water Purification	Joshi S., Kathuria H., Verma S., Valiyaveetil S.	2020	12	19044 - 19053
200.	Dalton Transactions	A tetranuclear cobalt(ii) phosphate possessing a D4R core: An efficient water oxidation catalyst	Dey A., Kumar V., Pal S., Guha A., Bawari S., Narayanan T.N., Chandrasekhar V.	2020	49	4878 - 4886
201.	Dalton Transactions	Influence of ligand field on magnetic anisotropy in a family of pentacoordinate CoII complexes	Acharya J., Sarkar A., Kumar P., Kumar V., Flores Gonzalez J., Cador O., Pointillart F., Rajaraman G., Chandrasekhar V.	2020	49	4785-4796
202.	Inorganic Chemistry	Backbone Boron-Functionalized Imidazoles/Imidazolium Salts: Synthesis, Structure, Metalation Studies, and Fluoride Sensing Properties	Avinash I., Parveen S., Anantharaman G.	2020	59	5646-5661
203.	Angewandte Chemie - International Edition	CAAC-Based Thiele and Schlenk Hydrocarbons	Maiti A., Stubbe J., Neuman N.I., Kalita P., Duari P., Schulzke C., Chandrasekhar V., Sarkar B., Jana A.	2020	59	6729-6734
204.	Physical Chemistry Chemical	Orientational competition in quantum dot growth in Si-Ge heteroepitaxy on pit-patterned	Dixit G.K., Dhankhar M., Ranganathan M.	2020	22	7643-7649

	Physics	Si(001) substrates				
205.	Catalysis Communications	Application of a reusable Co-based nanocatalyst in alcohol dehydrogenative coupling strategy: Synthesis of quinoxaline and imine scaffolds	Panja D., Paul B., Balasubramaniam B., Gupta R.K., Kundu S.	2020	137	-
206.	Journal of Physical Chemistry B	Dynamics of Water in the Solvation Shell of an Iodate Ion: A Born-Oppenheimer Molecular Dynamics Study	Sharma B., Chandra A.	2020	124	2618-2631
207.	Crystals	Experimental sensing and dft mechanism of zn(ii) complex for highly sensitive and selective detection of acetone	Muddassir M., Usman M., Alarifi A., Afzal M., Alshali K.A., Beagan A., Kumar A., Abduhd N.A.Y., Ahmad M.	2020	10	-
208.	Nanotechnology for Environmental Engineering	Fertilizer-free cultivation of wheat in nutrient-deficient soil by treating the seeds with nanopyrite	Jangir H., Bharadwaj A., Srivastava G., Das M.	2020	5	-
209.	Crystal Growth and Design	Metalation Studies of Carbophosphazene-Based Coordination Ligands: Metallacages to Polymeric Networks	Senapati T., Dey A., Kumar V., Chandrasekhar V.	2020	20	2660-2669
210.	Chemistry - A European Journal	N,N'-Ethylene-Bridged Bis-2-Aryl-Pyrrolinium Cations to E-Diaminoalkenes: Non-Identical Stepwise Reversible Double-Redox Coupled Bond Activation Reactions	Nayak M.K., Stubbe J., Neuman N.I., Narayanan R.S., Maji S., Schulzke C., Chandrasekhar V., Sarkar B., Jana A.	2020	26	4425-4431
211.	Journal of Catalysis	Multifunctional porous organic polymers (POPs): Inverse adsorption of hydrogen over nitrogen, stabilization of Pd(0) nanoparticles, and catalytic cross-	Yadav C., Maka V.K., Payra S., Moorthy J.N.	2020	384	61-71

		coupling reactions and reductions				
212.	Journal of King Saud University - Science	Metal organic precursor derived Ba _{1-x} CaxZrO ₃ (0.05 ≤ x ≤ 0.20) nanoceramics for excellent capacitor applications	Ubaidullah M., Ahmed J., Al-Enizi A.M., Tyagi A., Shaikh S.F., Tarannum N., Ahmad T.	2020	32	1937-1943
213.	Journal of Crystal Growth	Quantum dot molecule formation in Si-Ge heteroepitaxy on pit-patterned Si(001) substrate: A theoretical study	Dhankhar M., Ranganathan M.	2020	535	-
214.	Chemical Communications	Purine-blended nanofiber woven flexible nanomats for SERS-based analyte detection	Saravanan R.K., Naqvi T.K., Patil S., Dwivedi P.K., Verma S.	2020	56	5795-5798
215.	Inorganica Chimica Acta	Catalytic promiscuity of a copper(II)-Mannich base complex having unprecedented radical pathway in catecholase activity	Dasgupta S., Mandal A., Samanta D., Zangrando E., Maity S., Das D.	2020	505	-
216.	ACS Sensors	Luminescent Europium(III) "turn-On" Sensor for G-Series Chemical Warfare Simulants: A Mechanistic Investigation	Gupta K., Patra A.K.	2020	5	1268-1272
217.	Dalton Transactions	Synthesis of Mn ₃ O ₄ nanozymes from structurally characterized phenoxazinone synthase models based on manganese(iii) Schiff base complexes	Mandal A., Dasgupta S., Adhikary A., Samanta D., Zangrando E., Das D.	2020	49	5999-6011
218.	Chemistry - A European Journal	Activation of Aromatic C–F Bonds by a N-Heterocyclic Olefin (NHO)	Mandal D., Chandra S., Neuman N.I., Mahata A., Sarkar A., Kundu A., Anga S., Rawat H., Schulzke C., Mote K.R., Sarkar B., Chandrasekhar V.,	2020	26	5951-5955

			Jana A.			
219.	Catalysis Science and Technology	A dinuclear iron complex as an efficient electrocatalyst for homogeneous water oxidation reaction	Karim S., Chakraborty A., Samanta D., Zangrando E., Ghosh T., Das D.	2020	10	2830-2837
220.	Physical Chemistry Chemical Physics	Structure elucidation and construction of isomerisation pathways in small to moderate-sized (6-27) MgO nanoclusters: An adaptive mutation simulated annealing based analysis with quantum chemical calculations	Ghosh K., Sharma R., Chaudhury P.	2020	22	9616-9629
221.	Crystal Growth and Design	Organotin Phosphates Assembled from a Sterically Hindered Organophosphate, ArOP(O)(OH) ₂ , (Ar = 2,6-(CHPh ₂) ₂ -4- i-Pr-C ₆ H ₂): Syntheses and Structures	Kumar V., Acharya J., Kumar P., Gupta V., Kalita P., Biswas S., Narayanan R.S., Santra B., Anga S., Jana A., Chandrasekhar V.	2020	20	3034-3043
222.	Inorganic Chemistry	Pentagonal Bipyramidal Ln(III) Complexes Containing an Axial Phosphine Oxide Ligand: Field-induced Single-ion Magnetism Behavior of the Dy(III) Analogues	Kalita P., Ahmed N., Bar A.K., Dey S., Jana A., Rajaraman G., Sutter J.-P., Chandrasekhar V.	2020	59	6603-6612
223.	Inorganic Chemistry	Temperature-Dependent Emission and Turn-Off Fluorescence Sensing of Hazardous "quat" Herbicides in Water by a Zn-MOF Based on a Semi-Rigid Dibenzochrysene Tetraacetic Acid Linker	Mukhopadhyay A., Jindal S., Savitha G., Moorthy J.N.	2020	59	6202-6213
224.	Dyes and Pigments	Donor-acceptor architectures of tetraphenylethene linked aza-BODIPYs: Synthesis, crystal structure, energy transfer and	Balsukuri N., Manav N., Lone M.Y., Mori S., Das A., Sen P., Gupta I.	2020	176	-

		computational studies				
225.	Chemistry - A European Journal	Stepwise Oxidations in a Cofacial Copper(II) Porphyrin Dimer: Through-Space Spin-Coupling and Interplay between Metal and Radical Spins	Kumar A., Sanfui S., Sciortino G., Maréchal J.-D., Garribba E., Rath S.P.	2020	26	7869-7880
226.	Molecular Physics	Electron dynamics in H ₂ ⁺ molecule-ion under a strong, oscillating magnetic field	Goel N., Gupta S., Sadhukhan M., Deb B.M.	2020	118	-
227.	New Journal of Chemistry	Transition metal ions induced secondary structural transformation in a hydrophobized short peptide amphiphile	Singh R., Mishra N.K., Singh N., Rawal P., Gupta P., Joshi K.B.	2020	44	9255-9263
228.	Nanoscale	Nanoscale plasmon-exciton interaction: The role of radiation damping and mode-volume in determining coupling strength	Kumar M., Dey J., Verma M.S., Chandra M.	2020	12	11612- 11618
229.	Journal of Organic Chemistry	Cp*Co(III)-Catalyzed Ketone- Directed ortho-C-H Activation for the Synthesis of Indene Derivatives	Dethe D.H., C B N., Bhat A.A.	2020	85	7565-7575
230.	Angewandte Chemie - International Edition	Nickel(II)-Mediated Reversible Thiolate/Disulfide Conversion as a Mimic for a Key Step of the Catalytic Cycle of Methyl- Coenzyme M Reductase	Bhandari A., Mishra S., Maji R.C., Kumar A., Olmstead M.M., Patra A.K.	2020	59	9177-9185
231.	Inorganic Chemistry	Complexation of Chiral Zinc(II)Porphyrin Tweezer with Chiral Guests: Control, Discrimination and Rationalization of Supramolecular Chirality	Saha B., Iqbal S.A., Rath S.P.	2020	59	7795-7809
232.	Applied Materials Today	Control of In-MOF topologies and tuning of porosity through ligand structure, functionality and	Kumar Maka V., Tamuly P., Jindal S., Narasimha Moorthy	2020	19	-

		interpenetration: Selective cationic dye exchange	J.			
233.	Inorganica Chimica Acta	Ternary Co(II), Ni(II) and Cu(II) complexes containing dipyridophenazine and saccharin: Structures, reactivity, binding interactions with biomolecules and DNA damage activity	Kumar P., Butcher R.J., Patra A.K.	2020	506	-
234.	Journal of Computational Chemistry	Transport of hydrated nitrate and nitrite ions through graphene nanopores in aqueous medium	Yadav S., Chandra A.	2020	41	1850-1858
235.	Chemical Communications	Trisubstituted geminal diazaalkene derived transient 1,2-carbocations	Mandal D., Stein F., Chandra S., Neuman N.I., Sarkar P., Das S., Kundu A., Sarkar A., Rawat H., Pati S.K., Chandrasekhar V., Sarkar B., Jana A.	2020	56	8233-8236
236.	ACS Catalysis	C-Alkylation of Various Carbonucleophiles with Secondary Alcohols under CoIII-Catalysis	Chakraborty P., Garg N., Manoury E., Polir R., Sundararaju B.	2020	10	8023-8031
237.	Journal of Physical Chemistry B	Shape-Dependent Macromolecular Crowding on the Thermodynamics and Microsecond Conformational Dynamics of Protein Unfolding Revealed at the Single-Molecule Level	Das N., Sen P.	2020	124	5858-5871
238.	Chemical Physics Letters	Two-dimensional infrared spectroscopy of aqueous solutions from first principles simulations	Ojha D., Chandra A.	2020	751	-
239.	Journal of Computational Chemistry	Efficient computation of free energy surfaces of chemical reactions using ab initio molecular	Mandal S., Nair N.N.	2020	41	1790-1797

		dynamics with hybrid functionals and plane waves				
240.	Polyhedron	Selective CO ₂ adsorption and Lewis acid catalytic activity towards naphthimidazole synthesis by a Zn-MOF	Agarwal R.A., De D.	2020	185	-
241.	Inorganic Chemistry	A Chemodosimetric Approach for Fluorimetric Detection of Hg ²⁺ Ions by Trinuclear Zn(II)/Cd(II) Schiff Base Complex: First Case of Intermediate Trapping in a Chemodosimetric Approach	Sarkar A., Chakraborty A., Chakraborty T., Purkait S., Samanta D., Maity S., Das D.	2020	59	9014-9028
242.	ChemCatChem	Efficient Transfer Hydrogenation of Ketones using Methanol as Liquid Organic Hydrogen Carrier	Garg N., Paira S., Sundararaju B.	2020	12	3472-3476
243.	Journal of Physical Chemistry A	Marcus Relationship Maintained during Ultrafast Electron Transfer across a Supramolecular Capsular Wall	Das A., Kamatham N., Mohan Raj A., Sen P., Ramamurthy V.	2020	124	5297-5305
244.	Journal of Physical Chemistry B	Two-Dimensional Infrared Spectroscopy of Aqueous Solutions of Metal Nitrates: Slowdown of Spectral Diffusion in the Presence of Divalent Cations	Das B., Mondal S., Chandra A.	2020	124	7391-7404
245.	European Journal of Inorganic Chemistry	Bimetallic Europium and Terbium Complexes Containing Substituted Terpyridines and the NSAID Drug Tolfenamic Acid: Structural Differences, Luminescence Properties, and Theranostic Applications	Dasari S., Maparu A.K., Abbas Z., Kumar P., Birla H., Sivakumar S., Patra A.K.	2020	2020	2998-3009
246.	Journal of Physical Chemistry B	Solvation Shell of the Nitrite Ion in Water: An Ab Initio Molecular Dynamics Study	Yadav S., Chandra A.	2020	124	7194-7204

247.	ChemistrySelect	Highly Selective and Sensitive (PPB Level) Quinolin-Based Colorimetric Chemosensor for Cu(II)	Mohan V., Das N., Jain V.K., Khan T., Pandey S.K., Faizi M.S.H., Daniel J., Sen P.	2020	5	9435-9442
248.	Organic and Biomolecular Chemistry	Synthesis of: N -methylated amines from acyl azides using methanol	Chakrabarti K., Dutta K., Kundu S.	2020	18	5891-5896
249.	CrystEngComm	Design, synthesis and investigations of a series of energetic salts through the variation of amines and concentration of picrate anions	Mathpati R.S., Dharavath S., Kumar N., Ghule V.D., Paul A.K., Tittal R.K.	2020	22	4842-4852
250.	Organic Letters	Sc(OTf) ₃ -Catalyzed Synthesis of Symmetrical Dithioacetals and Bisarylmethanes Using Nitromethane as a Methylene Source	Dethe D.H., Shukla M., Dherange B.D.	2020	22	5778-5782
251.	Journal of Physical Chemistry B	Partial Viscosity Decoupling of Solute Solvation, Rotation, and Translation Dynamics in Lauric Acid/Menthol Deep Eutectic Solvent: Modulation of Dynamic Heterogeneity with Length Scale	Subba N., Das N., Sen P.	2020	124	6875-6884
252.	Biophysical Journal	Mechanism of Nucleotidyltransfer Reaction and Role of Mg ²⁺ Ion in Sugar Nucleotidyltransferases	Vithani N., Prakash B., Nair N.N.	2020	119	619-627
253.	Chemistry - A European Journal	Elucidating the Molecular Basis of Avibactam-Mediated Inhibition of Class A β -Lactamases	Das C.K., Nair N.N.	2020	26	9639-9651
254.	New Journal of Physics	Spin-bath polarization via disentanglement	Rao D.D.B., Ghosh A., Gelbwaser-Klimovsky D., Bar-Gill N., Kurizki G.	2020	22	-
255.	Journal of Materials	Yellowish-orange phosphorescent iridium(III) complexes of bis-	Prajapati M.J., Solanki J.D., Machhi	2020	31	13778-13786

	Science: Materials in Electronics	cyclometalated ligand with pyrazolone derivatives: synthesis, characterization, photophysical and thermal properties	H.K., Soni S.S., Sen P., Surati K.R.			
256.	Advanced Functional Materials	Multiphoton-Pumped Highly Polarized Polariton Microlasers from Single Crystals of a Dye- Coordinated Metal–Organic Framework	Kottilil D., Gupta M., Vijayan C., Bharadwaj P.K., Ji W.	2020	30	-
257.	Saudi Journal of Biological Sciences	β -Carboline copper complex as a potential mitochondrial-targeted anticancer chemotherapeutic agent: Favorable attenuation of human breast cancer MCF7 cells via apoptosis	Khan R.A., Khan M.R., Usman M., Sayeed F., Alghamdi H.A., Alrumman S., Alharbi W., Farshori N.N., Al-Oqail M.M., Siddiqui M.R., Khanjer M.A., Alsalme A.	2020	27	2164-2173
258.	New Journal of Chemistry	Luminescent EuIII and TbIIIBimetallic complexes of N,N'-heterocyclic bases and tolfenamic acid: structures, photophysical aspects and biological activity	Abbas Z., Singh P., Dasari S., Sivakumar S., Patra A.K.	2020	44	15685- 15697
259.	Chemical Communications	Bioinspired adenine-dopamine immobilized polymer hydrogel adhesives for tissue engineering	Joshi S., Mahadevan G., Verma S., Valiyaveetil S.	2020	56	11303- 11306
260.	Physical Chemistry Chemical Physics	Probing the role of oscillator strength and charge of exciton forming molecular J-aggregates in controlling nanoscale plasmon- exciton interactions	Das K., Dey J., Verma M.S., Kumar M., Chandra M.	2020	22	20499- 20506
261.	Tetrahedron Letters	Brønsted acid promoted C–C bond formation between indolylmethyl electrophiles and ketene dithioacetals: Diastereoselective synthesis of	Jadhav S.D., Singh T., Singh A.	2020	61	-

		highly functionalized cyclopenta[b]indoles				
262.	Inorganic Chemistry	Hg...Hg...Hg Interaction Stabilizes Unusual Trinuclear Double Sandwich Structure of Mercury(II) Porphyrins	Pandey A.K., Usman M., Rath S.P.	2020	59	12988-12993
263.	Angewandte Chemie - International Edition	A 2-Tyr-1-carboxylate Mononuclear Iron Center Forms the Active Site of a Paracoccus Dimethylformamidase	Arya C.K., Yadav S., Fine J., Casanal A., Chopra G., Ramanathan G., Vinothkumar K.R., Subramanian R.	2020	59	16961-16966
264.	Analytical Chemistry	NADH-Activated Dual-Channel Fluorescent Probes for Multicolor Labeling of Live Cells and Tumor Mimic Spheroids	Podder A., Murali V.P., Deepika S., Dhamija A., Biswas S., Maiti K.K., Bhuniya S.	2020	92	12356-12362
265.	Organometallics	An Annelated Mesoionic Carbene (MIC) Based Ru(II) Catalyst for Chemo- And Stereoselective Semihydrogenation of Internal and Terminal Alkynes	Yadav S., Dutta I., Saha S., Das S., Pati S.K., Choudhury J., Bera J.K.	2020	39	3212-3223
266.	ACS Infectious Diseases	Peptide Nanostructure-Mediated Antibiotic Delivery by Exploiting H ₂ S-Rich Environment in Clinically Relevant Bacterial Cultures	Singh N., Singh R., Shukla M., Kaul G., Chopra S., Joshi K.B., Verma S.	2020	6	2441-2450
267.	Tetrahedron	Benzimidazole fragment containing Mn-complex catalyzed hydrosilylation of ketones and nitriles	Ganguli K., Mandal A., Sarkar B., Kundu S.	2020	76	-
268.	Journal of Materials Chemistry C	Selective sensing of aliphatic biogenic polyamines by a zwitterionic Cd-MOF based on bisimidazole tetracarboxylic acid linker	Jindal S., Maka V.K., Moorthy J.N.	2020	8	11449-11456

269.	Journal of Organic Chemistry	Cobalt-Catalyzed Tandem Transformation of 2-Aminobenzonitriles to Quinazolinones Using Hydration and Dehydrogenative Coupling Strategy	Samim S.A., Roy B.C., Nayak S., Kundu S.	2020	85	11359-11367
270.	Journal of Physical Chemistry C	High 3D Proton Conductivity of a 2D Zn(II) Metal-Organic Framework Synthesized via Water-Assisted Single-Crystal-to-Single-Crystal Phase Transformation	Agarwal R.A., Das A., Omar S.	2020	124	18901-18910
271.	Journal of Carbohydrate Chemistry	An expeditious one-pot synthesis of thiourea derivatives of carbohydrates from sugar azides	Mishra K.B., Rajkhowa S., Tiwari V.K.	2020	39	334-353
272.	ChemPlusChem	Constitutionally Isomeric Aromatic Tripeptides: Self-Assembly and Metal-Ion-Modulated Transformations	Singh N., Singh R., Joshi K.B., Verma S.	2020	85	2001-2009
273.	Journal of Fluorescence	Two-Photon-Induced Fluorescence Study of Rhodamine-6G Dye in Different Sets of Binary Solvents	Gupta R.K., Kant S., Rawat A.K., Goswami D.	2020	30	1043-1048
274.	Polyhedron	Nanoparticles fabrication from as-synthesized two dimensional Zn(II) coordination polymer	Agarwal R.A.	2020	187	-
275.	Journal of Physics and Chemistry of Solids	Organic-inorganic hybrid halide perovskites impregnated with Group 1 and 15 elements for solar cell application	Dey P., Singh H., Gupta R.K., Goswami D., Maiti T.	2020	144	-
276.	Industrial and Engineering Chemistry Research	Interpretation of Adsorption Behavior of Carboxymethyl Cellulose onto Functionalized Accurel Polymeric Surface	Singh K., Kumar A., Pandey S.K., Awasthi S., Gupta S.P., Mishra P.	2020	59	19102-19116
277.	Organic Letters	Stereoselective Synthesis of Hexahydroimidazo[1,2-	Pradhan S., Chauhan N., Shahi C.K.,	2020	22	7903-7908

		a]quinolines via SN2-Type Ring-Opening Hydroarylation-Hydroamination Cascade Cyclization of Activated Aziridines with N-Propargylanilines	Bhattacharyya A., Ghorai M.K.			
278.	ChemElectroChem	Movements of Mobile Ions in Molecular Electronic Devices	Sachan P., Chandra Mondal P.	2020	7	4186-4187
279.	Applied Surface Science	Electronic properties and superior CO ₂ capture selectivity of metal nitride (XN) and phosphide (XP) (X = Al, Ga and In) sheets	Yadav V.K., Mir S.H., Singh J.K.	2020	527	-
280.	Dalton Transactions	Development of novel ruthenium(ii)-arene complexes displaying potent anticancer effects in glioblastoma cells	Kumar P., Mondal I., Kulshreshtha R., Patra A.K.	2020	49	13294-13310
281.	Physical Chemistry Chemical Physics	A simple molecular design for tunable two-dimensional imine covalent organic frameworks for optoelectronic applications	Yadav V.K., Mir S.H., Mishra V., Gopakumar T.G., Singh J.K.	2020	22	21360-21368
282.	Dalton Transactions	Slow magnetic relaxation in a homo dinuclear Dy(iii) complex in a pentagonal bipyramidal geometry	Acharya J., Ahmed N., Flores Gonzalez J., Kumar P., Cador O., Singh S.K., Pointillart F., Chandrasekhar V.	2020	49	13110-13122
283.	ACS Catalysis	Electronic Asymmetry of an Annelated Pyridyl-Mesoionic Carbene Scaffold: Application in Pd(II)-Catalyzed Wacker-Type Oxidation of Olefins	Saha S., Yadav S., Reshi N.U.D., Dutta I., Kunnikuruvaan S., Bera J.K.	2020	10	11385-11393
284.	Organic and Biomolecular Chemistry	Intermolecular fluoroamination of allenes towards substituted vinyl fluorides	Tiwari V., Bingham J.T., Vyas S., Singh A.	2020	18	9044-9049
285.	Dalton Transactions	Organic cage supported metal nanoparticles for applications	Sharma V., Bharadwaj P.K.	2020	49	15574-15586

286.	Dalton Transactions	Seven-coordinate LnIII complexes assembled from a bulky : MesacacH ligand: Their synthesis, structure, photoluminescence and SMM behaviour	Kalita P., Nayak P., Ahmed N., Herrera J.M., Venkatasubbaiah K., Colacio E., Chandrasekhar V.	2020	49	15404-15416
287.	Dalton Transactions	Probing the electronic structure of [Ru(L1)2]: Z(z = 0, 1+ and 2+) (H2L1: A tridentate 2-aminophenol derivative) complexes in three ligand redox levels	Saha A., Rajput A., Gupta P., Mukherjee R.	2020	49	15355-15375
288.	Dalton Transactions	Palladium complexes with an annellated mesoionic carbene (MIC) ligand: Catalytic sequential Sonogashira coupling/cyclization reaction for one-pot synthesis of benzofuran, indole, isocoumarin and isoquinolone derivatives	Tyagi A., Reshi N.U.D., Daw P., Bera J.K.	2020	49	15238-15248
289.	ChemistrySelect	A Three-Dimensional Pentanuclear Co(II) Coordination Polymer: Structural Topology, Hirshfeld Surface Analysis and Magnetic Properties	Kamaal S., Gupta M., Mishra R., Ali A., Alarifi A., Afzal M., Das R., Ahmad M.	2020	5	13732-13737
290.	Journal of Materials Chemistry A	Triphenylamine and terpyridine-zinc(ii) complex based donor-acceptor soft hybrid as a visible light-driven hydrogen evolution photocatalyst	Samanta D., Kumar M., Singh S., Verma P., Kar K.K., Maji T.K., Ghorai M.K.	2020	8	21968-21972
291.	ACS Infectious Diseases	Local and Sustained Delivery of Rifampicin from a Bioactive Ceramic Carrier Treats Bone Infection in Rat Tibia	Qayoom I., Teotia A.K., Panjla A., Verma S., Kumar A.	2020	6	2938-2949
292.	ACS Applied Materials and Interfaces	Rationally Designed Semiconducting 2D Surface-Confined Metal-Organic Network	Mishra V., Mir S.H., Singh J.K., Gopakumar T.G.	2020	12	51122-51132

293.	Chemistry - A European Journal	Intermacrocyclic Interactions upon Stepwise Oxidations in a Monometallic Porphyrin Dimer: Ring versus Metal-Center Oxidations and Effect of Counter Anions	Singh A.K., Rath S.P.	2020	26	14405-14418
294.	Organometallics	A Proton-Responsive Annulated Mesoionic Carbene (MIC) Scaffold on Ir Complex for Proton/Hydride Shuttle: An Experimental and Computational Investigation on Reductive Amination of Aldehyde	Pandey P., Daw P., Din Reshi N.U., Ehmann K.R., Hölscher M., Leitner W., Bera J.K.	2020	39	3849-3863
295.	Chemical Communications	Cu-tetracatechol metallopolymer catalyst for three component click reactions and β -borylation of α,β -unsaturated carbonyl compounds	Joshi S., Yip Y.J., Türel T., Verma S., Valiyaveetil S.	2020	56	13044-13047
296.	European Journal of Organic Chemistry	Facile One-Pot Assembly of Push–Pull Imines by a Selective C–F Substitution Process in Aryl Fluorides	Anga S., Chandra S., Sarkar P., Das S., Mandal D., Kundu A., Rawat H., Schulzke C., Sarkar B., Pati S.K., Chandrasekhar V., Jana A.	2020	2020	7445-7449
297.	Chemistry - A European Journal	Environmentally Benign, Intrinsically Coordinated, Lithium-Based Solid Electrolyte with a Modified Purine as Supporting Ligand	Avasthi I., Gaganjot, Katiyar M., Verma S.	2020	26	16706-16711
298.	Journal of Computational Chemistry	A QM/MM simulation study of transamination reaction at the active site of aspartate aminotransferase: Free energy landscape and proton transfer pathways	Dutta Banik S., Bankura A., Chandra A.	2020	41	2684-2694
299.	Angewandte	CeIV- and HClO ₄ -Promoted	Draksharapu A., Xu	2020	59	22484-

	Chemie - International Edition	Assembly of an Fe ₂ IV(μ -O) ₂ Diamond Core from its Monomeric FeIV=O Precursor at Room Temperature	S., Que L., Jr.			22488
300.	European Physical Journal D	Non-adiabatic coupling as a frictional force in the formation of H ₃ ⁺ : a model dynamical study	Ravi S., Mukherjee S., Mukherjee B., Adhikari S., Sathyamurthy N., Baer M.	2020	74	-
301.	Inorganica Chimica Acta	Five-coordinate [(L ₂) ₂ CuII(X)] _z ⁺ (X = H ₂ O, z = 2; X = N ₃ ⁻ , SCN ⁻ , NO ₂ ⁻ , MeCO ₂ ⁻ , Cl ⁻ , Br ⁻ , z = 1; L ₂ = 1-benzyl-[3-(2-pyridyl)]pyrazole) complexes: Structural index, EPR and redox potential correlations	Mukherjee J., Sengupta A., Mukherjee R.	2020	513	-
302.	Optik	Study of graphite optode for characterization of solid heterocyclic nitrogen-rich imidazole, 1, 2, 4-triazole, tetrazole molecules using visible – NIR laser based time domain photoacoustic spectroscopy	Rao K.S., Chaudhary A.K., Dharavath S.	2020	224	-
303.	Journal of Energy Resources Technology, Transactions of the ASME	Microscopic spray characteristics of biodiesels derived from Karanja, Jatropha, and waste cooking oils	Patel C., Hwang J., Bae C., Agarwal R.A., Agarwal A.K.	2020	142	-
304.	Scientific Reports	A biphasic nanohydroxyapatite/calcium sulphate carrier containing Rifampicin and Isoniazid for local delivery gives sustained and effective antibiotic release and prevents biofilm formation	Qayoom I., Verma R., Murugan P.A., Raina D.B., Teotia A.K., Matheshwaran S., Nair N.N., Tägil M., Lidgren L., Kumar A.	2020	10	-
305.	International	Fluorescence correlation	Sengupta B., Das N.,	2020	164	2524-2534

	Journal of Biological Macromolecules	spectroscopy as a tool to investigate the directionality of proteolysis	Singh V., Thakur A.K., Sen P.			
306.	Communications Chemistry	Stable chaos and delayed onset of statisticality in unimolecular dissociation reactions	Karmakar S., Yadav P.K., Keshavamurthy S.	2020	3	-
307.	Progress in Biophysics and Molecular Biology	Comparison of CryoEM and X-ray structures of dimethylformamidase	Vinothkumar K.R., Arya C.K., Ramanathan G., Subramanian R.	2021	160	66-78
308.	Journal of Physical Organic Chemistry	An alternate energy-conserved pathway for the Morita–Baylis–Hillman reaction	Yadav V.K.	2021	34	-
309.	Polymer Composites	Synergistic effect of crosslinking and dual reinforcement on the thermal and mechanical properties of polyvinyl alcohol	Sonker A.K., Roy S., Wagner H.D., Zak A., Sui X., Bajpai R.	2021	42	1214-1223
310.	Reactive and Functional Polymers	Improving the extraction performance of polymer inclusion membranes by cross-linking their polymeric backbone	Hoque B., Almeida M.I.G.S., Catrall R.W., Gopakumar T.G., Kolev S.D.	2021	160	-
311.	Regular and Chaotic Dynamics	Classical and Quantum Dynamical Manifestations of Index- 2 Saddles: Concerted Versus Sequential Reaction Mechanisms	Pandey P., Naik S., Keshavamurthy S.	2021	26	165-182
312.	Dalton Transactions	Luminescent naphthalimide-tagged ruthenium(ii)-arene complexes: cellular imaging, photocytotoxicity and transferrin binding	Srivastava P., Verma M., Kumar A., Srivastava P., Mishra R., Sivakumar S., Patra A.K.	2021	50	3629-3640
313.	Chemical Science	Ruthenium-catalyzed formal sp ³ C-H activation of allylsilanes/esters with olefins:	Dethe D.H., Beeralingappa N.C., Das S., Nirpal A.K.	2021	12	4367-4372

		efficient access to functionalized 1,3-dienes				
314.	RSC Advances	Ligand substituent effect on the cytotoxicity activity of two new copper(ii) complexes bearing 8-hydroxyquinoline derivatives: Validated by MTT assay and apoptosis in MCF-7 cancer cell line (human breast cancer)	Ali A., Banerjee S., Kamaal S., Usman M., Das N., Afzal M., Alarifi A., Sepay N., Roy P., Ahmad M.	2021	11	14362-14373
315.	Carbon Letters	Chickpea peel waste as sustainable precursor for synthesis of fluorescent carbon nanotubes for bioimaging application	Singh V., Chatterjee S., Palecha M., Sen P., Ateeq B., Verma V.	2021	31	117-123
316.	Journal of Physical Organic Chemistry	On the solvent- and temperature-driven stereoselectivity of the Diels–Alder cycloaddition reactions of furan with maleic anhydride and maleimide	Yadav V.K., Prasad D.L.V.K., Yadav A., Yadav K.	2021	34	-
317.	Asian Journal of Organic Chemistry	Nitrogen-rich Compounds with Multiple Azole Rings: Gas Generant, Enthalpy Enhancer and Applicable Cationic Component	Mathpati R.S., Ghule V.D., Dharavath S.	2021	10	421-427
318.	Monatshefte für Chemie	Novel metal(II) complexes with pyrimidine derivative ligand: synthesis, multi-spectroscopic, DNA binding/cleavage, molecular docking with DNA/BSA, and antimicrobial studies	Senthilkumar G.S., Sankarganesh M., Dhavethu Raja J., Sakthivel A., Vijay Solomon R., Mitu L.	2021	152	251-261
319.	Journal of the American Chemical Society	Dynamics of Anthracene Excimer Formation within a Water-Soluble Nanocavity at Room Temperature	Das A., Danao A., Banerjee S., Raj A.M., Sharma G., Prabhakar R., Srinivasan V., Ramamurthy V., Sen P.	2021	143	2025-2036
320.	Chemical	Tethered CAAC-CAAC dimers:	Nayak M.K., Suhr S.,	2021	57	1210-1213

	Communications	oxidation to persistent radical cations and bridging-unit dependent reactivity/ stability of the dications	Chrysochos N., Rawat H., Schulzke C., Chandrasekhar V., Sarkar B., Jana A.			
321.	ChemCatChem	Well-defined Cp*Co(III)-catalyzed Hydrogenation of Carbonates and Polycarbonates	Dahiya P., Gangwar M.K., Sundararaju B.	2021	13	934-939
322.	Journal of Organic Chemistry	An Unsymmetric Imino-Phosphanamidinate Ligand and its Y(III) Complex: Synthesis, Characterization, and Catalytic Hydroboration of Carbonyl Compounds	Anga S., Acharya J., Chandrasekhar V.	2021	86	2224-2234
323.	Journal of Organic Chemistry	Ruthenium-Catalyzed Oxidative Cross-Coupling Reaction of Activated Olefins with Vinyl Boronates for the Synthesis of (E, E)-1,3-Dienes	Dethe D.H., Beeralingappa N.C., Uike A.	2021	86	3444-3455
324.	Polyhedron	A new copper(II)-based layered coordination polymer: Crystal structure, topology, QTAIM analysis, experimental and theoretical magnetic properties based on DFT combined with broken-symmetry formalism (BS-DFT)	Kamaal S., Usman M., Afzal M., Alarifi A., Ali A., Das R., Lama P., Ahmad M.	2021	193	-
325.	New Journal of Chemistry	Transition-metal ion-mediated morphological transformation of pyridine-based peptide nanostructures	Singh N., Singh R., Sharma S., Kesharwani K., Joshi K.B., Verma S.	2021	45	153-161
326.	Journal of Physical Chemistry C	Measuring the Intermolecular Interactions in Molecular Patterns on Surfaces Using Microscopy	Mishra V., Saha P., Gopakumar T.G.	2021	125	602-609
327.	Journal of Physical	Potassium-Induced Passivation of Deep Traps in Bismuth-Doped	Chatterjee S., Ghosal M., Tiwari K., Sen P.	2021	12	546-551

	Chemistry Letters	Hybrid Lead Bromide Perovskite Nanocrystals: Massive Amplification of Photoluminescence Quantum Yield				
328.	Chemical Communications	Reactivity of NHC/diphosphene-coordinated Au(i)-hydride	Dhara D., Scheschkewitz D., Chandrasekhar V., Yildiz C.B., Jana A.	2021	57	809-812
329.	New Journal of Chemistry	The reversible inter-conversion of copper(ii) dimers bearing phenolate-based ligands in their monomers: theoretical and experimental viewpoints	Agarwal P., Kumar A., Richa R., Verma I., Erande R.D., Kłak J., Mota A.J., Arora H., Rajput A.	2021	45	1203-1215
330.	ACS Applied Nano Materials	Anthracene-Bisimidazole Tetraacid Linker-Based Metal-Organic Nanosheets for Turn-On Fluorescence Sensing of Nerve Agent Mimics	Jindal S., Maka V.K., Anjum G., Moorthy J.N.	2021	4	449-458
331.	Coordination Chemistry Reviews	Recent advances in annellated NHCs and their metal complexes	Reshi N.U.D., Bera J.K.	2020	422	-
332.	Angewandte Chemie International Edition	The Pivotal Role of Hot Carriers in Plasmonic Catalysis of C–N Bond Forming Reaction of Amines	Swaminathan, S., Rao, V. G., Bera, J. K., Chandra, M.	2021	60	12532-12538
333.	Physical Chemistry Chemical Physics	Impurity-induced nematic-isotropic transition of liquid crystals	Jana P., Lam J., Mangal R., Alava M., Parveen N., Laurson L.	2021	23	8825–8835
334.	Nat Commun	Coulomb interactions between dipolar quantum fluctuations in van der Waals bound molecules and materials	Stöhr, M., Sadhukhan, M., Al-Hamdani	2021	12	
335.	Dalton Transactions	Induction, Control and Rationalization of Supramolecular	Dhamija A, Mondal P, Saha B, Rath S P	2020	49	10679-10700

		Chirogenesis using Metalloporphyrin tweezers: A Structure-Function Correlation				
336.	Journal of the Indian Chemical Society	Electronic Coupling in Hetero-bimetallic Porphyrin Dimers: A Spectroscopic Investigation	Roy S, Banerjee S, Sanfui S, Rath S P	2020	97	2541- 2552
337.	Physical Review E	Microscopic quantum generalization of classical Liénard oscillators	Bhattacharyya S., Ghosh A., Ray, D. S.	2021	103	012118
338.	Coordn. Chem. Rev.	397. Boron-heteroelement (B-E; E =Al, C, Si, Ge, N, P, As, Bi, O, S, Se, Te) multiply bonded compounds: Recent advances	Rosmita Borthakur, Chandrasekhar V	2021	213647	429
339.	Chem. Commun.	405. Correction: Tethered CAAC-CAAC dimers: oxidation to persistent radical cations and bridging-unit dependent reactivity/stability of the dications	Mithilesh Kumar Nayak, Simon Suhr, Nicolas Chrysochos, Hemant Rawat, Carola Schulzke, Vadapalli Chandrasekhar, Biprajit Sarkar and Anukul Jana	2021	57	4979-4980
340.	Inorg. Chem.	406. Azide-Coordination in Homometallic Dinuclear Lanthanide (III) Complexes Containing Nonequivalent Lanthanide Metal Ions: Zero-Field SMM Behavior in the Dysprosium Analogue	Pawan Kumar, Sourav Biswas, Abinash Swain, Joydev Acharya, Vierandra Kumar, Pankaj Kalita , Jessica Flores Gonzalez, Olivier Cador, Fabrice Pointillart, Gopalan Rajaraman	2021	60	8530-8545

			and Vadapalli Chandrasekhar			
341.	Coord. Chem. Rev.	402. Heterometallic CuII-LnIII complexes: Single molecule magnets and magnetic refrigerants	Atanu Dey Prasenjit Bag Pankaj Kalita Vadapalli Chandrasekhar	2021	432	213707
342.	Magnetochemi- stry	401. High-coordinate mononuclear Ln(III) complexes: synthetic strategies and magnetic properties	Joydev Acharya, Pankaj Kalita, Vadapalli Chandrasekhar	2021	7	1
343.	J. Chem. Sci.	407. Octanuclear {Ln8} complexes: magneto- caloric effect in the {Gd8} analogue	Chandrasekhar V	2021	133	82
344.		408. Synthesis and reactivity of NHC- coordinated phosphenidene oxide	Debabrata Dhara, Pradeep Kumar Pal, Ramapada Dolai, Nicolas Chrysochos, Hemant Rawat, Benedict J. Elvers, Ivo Krummenacher, Holger Braunschweig, Carola Schulzke, Vadapalli Chandrasekhar, U. Deva Priyakumar and Anukul Jana			
345.	Inorg. Chim. Acta	403. Photophysical studies of Organostannoxane supported Hexafluorophore assemblies		2021	522	120378
346.	J. Org. Chem.	404. Cobalt(II)porphyrin- Mediated Selective Synthesis of 1,5- Diketones via an	Priyabrata Biswal , Shaikh Samser , Prakash Nayak , Vadapalli	2021	86	6744-6754

		Interrupted-Borrowing Hydrogen Strategy Using Methanol as a C1 Source	Chandrasekhar* , and Krishnan Venkatasubbaiah			
347.	Progress in Biophysics & Molecular Biology	Comparison of CryoEM and X-ray structures of dimethylformamidase	Vinothkumar, Kutti R.; Arya, Chetan Kumar; Ramanathan, Gurunath; Subramanian, Ramaswamy	2021	160	66-78
348.	Angewandte Chemie, International Edition	A 2-Tyr-1-carboxylate Mononuclear Iron Center Forms the Active Site of a Paracoccus Dimethylformamidase	Arya, Chetan Kumar; Yadav, Swati; Fine, Jonathan; Casanal, Ana; Chopra, Gaurav; Ramanathan , Gurunath; Vinothkumar, Kutti R.; Subramanian, Ramaswamy	2020	59(39)	16961-16966
349.	Mycology : Biology and Potential Biotechnologies (Book, Chapter 14)	Research contributions from India on membrane-modifying peptides: motivations from fungal peptaibols	Sabareesh V and Gurunath Ramanathan	2021		
350.	Biomimetics	Using X-ray Diffraction Techniques for Biomimetic Drug Development, Formulation, and Polymorphic Characterization	Israel Rodríguez, Ritika Gautam, Arthur D Tinoco	2021	6	1-23
351.	Journal of Physics and Chemistry of Solids	Organic-inorganic hybrid halide perovskites impregnated with Group 1 and 15 elements for solar cell application	Dey P., Singh H.,Gupta R.K., Goswami D., Maiti T.	2020	144	109518 (9 pages)
352.	Journal of Fluorescence	Two-Photon-Induced Fluorescence Study of Rhodamine-6G Dye in Different	Gupta R.K., Kant S., Rawat A.K., Goswami D.	2020	30	1043-1048

		Sets of Binary Solvents				
353.	Asian Journal of Physics	Femtosecond pump-probe spectroscopy for remote sensing of liquid-liquid interface	Goswami D., Das D.K., Makhal K.	2020	29	313-319
354.	Resonance: Journal of Science Education	Nicholaas Bloembergen (1920 – 2017) Physicist, father of nonlinear optics	Goswami D.	2020	25	1653-1657
355.	Current Science	Arthur Ashkin (1922–2020)	Goswami S., Goswami D.	2021	120	726-728
356.	Optics and Laser Technology	Comparative study of the real-time optical trapping in the Rayleigh regime for continuous and pulsed lasers	Bandyopadhyay S.N., Gaur T., Goswami D.	2021	136	106770 (12 pages)
Civil Engineering						
357.	Geocarto International	Assessment of winter season land surface temperature in the Himalayan regions around the Kullu area in India using landsat-8 data	Varade D., Dikshit O.	2020	35	641-662
358.	International Journal of Remote Sensing	Snow depth in Dhundi: an estimate based on weighted bias corrected differential phase observations of dual polarimetric bi-temporal Sentinel-1 data	Varade D., Maurya A.K., Dikshit O., Singh G., Manickam S.	2020	41	3031-3053
359.	Geocarto International	Monitoring of landslide activity at the Sirobagarh landslide, Uttarakhand, India, using LiDAR, SAR interferometry and geodetic surveys	Tiwari A., Narayan A.B., Dwivedi R., Dikshit O., Nagarajan B.	2020	35	535-558
360.	Journal of Green Engineering	Landslide susceptibility mapping of settlements and transportation corridors along the himalayan region, India	Prakasam C., Aravindh R., Kanwar V.S., Nagarajan B.	2020	10	1856-1877
361.	Remote Sensing of	Modelling of early winter snow density using fully polarimetric C-	Varade D., Manickam S.,	2020	240	-

	Environment	band SAR data in the Indian Himalayas	Dikshit O., Singh G., Snehmani			
362.	Soil Dynamics and Earthquake Engineering	Effect of residual displacement and sequence of events on Design Force Ratio spectrum	Dey P., Gupta V.K.	2020	131	-
363.	International Journal of Geotechnical Engineering	Flexural response of beams on viscoelastic foundations with predictions beyond the loading area	Sreekantan P.G., Basudhar P.K.	2020	14	442-451
364.	Atmospheric Research	Study on CCN activity of fission product aerosols (CsI and CsOH) and their effect on size and other properties	Mishra G., Tripathi S.N., Saud T., Joshi M., Khan A., Sapra B.K.	2020	236	-
365.	Progress in Nuclear Energy	Optimization of controlling parameters of plasma torch aerosol generator and characteristics of synthesized metal oxide aerosols in context of NAF program	Dwivedi A.K., Kumar M., Mishra G., Joshi M., Khan A., Tiwari N., Kumar S., Saud T., Sapra B.K., Tripathi S.N.	2020	123	-
366.	Earthquake Engineering and Structural Dynamics	Experimental and parametric investigation of effects of built-in staircases on the dynamics of RC buildings	Mir F.U.H., Rai D.C.	2020	49	527-542
367.	Atmospheric Research	Scavenging efficiency of water soluble inorganic and organic aerosols by fog droplets in the Indo Gangetic Plain	Izhar S., Gupta T., Panday A.K.	2020	235	-
368.	Journal of Elasticity	Topological Defects and Metric Anomalies as Sources of Incompatibility for Piecewise Smooth Strain Fields	Pandey A., Gupta A.	2020	139	237-267
369.	Journal of Sound and Vibration	Amplitude dependent damping behaviour of fundamental mode for CFRP composite tubes: Effect	Chawla K., Ray-Chaudhuri S.	2020	476	-

		of cross-section				
370.	Acta Geotechnica	Axial behavior of tapered piles using cavity expansion theory	Singh S., Patra N.R.	2020	15	1619-1636
371.	Journal of Rock Mechanics and Geotechnical Engineering	Polyaxial strength criterion and closed-form solution for squeezing rock conditions	Verma R.K., Chandra S.	2020	12	507-515
372.	Journal of Hydrology	Knowledge extraction from trained ANN drought classification model	Vidyarthi V.K., Jain A.	2020	585	-
373.	Frontiers in Built Environment	NHERI Lehigh Experimental Facility With Large-Scale Multi-Directional Hybrid Simulation Testing Capabilities	Cao L., Marullo T., Al-Subaihawi S., Kolay C., Amer A., Ricles J., Sause R., Kusko C.S.	2020	6	-
374.	Bulletin of the American Meteorological Society	Indian network project on carbonaceous aerosol emissions, source apportionment and climate impacts (COALESCE)	Venkataraman C., Bhushan M., Dey S., Ganguly D., Gupta T., Habib G., Kesarkar A., Phuleria H., Sunder Raman R.	2020	101	E1052-E1068
375.	International Journal of Remote Sensing	A framework for automatic classification of mobile LiDAR data using multiple regions and 3D CNN architecture	Kumar B., Pandey G., Lohani B., Misra S.C.	2020	41	5588-5608
376.	Environmental Science and Technology Letters	Real-Time Measurements of PM _{2.5} Oxidative Potential Using a Dithiothreitol Assay in Delhi, India	Puthussery J.V., Singh A., Rai P., Bhattu D., Kumar V., Vats P., Furger M., Rastogi N., Slowik J.G., Ganguly D., Prevot A.S.H., Tripathi S.N., Verma V.	2020	7	504-510
377.	Australian	Rut depth measurement of an	Gogoi R., Das A.,	2020	18	119-125

	Journal of Civil Engineering	asphalt pavement from its original profile	Chakroborty P.			
378.	ISH Journal of Hydraulic Engineering	Exact solutions of alternate depth ratio for three exponential channels	Pandey K.K., Subramanya K., Kumar N.	2020	26	310-318
379.	Environmental Science: Processes and Impacts	Toxicity of exhaust particulates and gaseous emissions from gasohol (ethanol blended gasoline)-fuelled spark ignition engines	Agarwal A.K., Singh A.P., Gupta T., Agarwal R.A., Sharma N., Pandey S.K., Ateeq B.	2020	22	1540-1553
380.	Computers and Geotechnics	Ultimate bearing capacity of skirted foundation on cohesionless soil using slip line theory	Santhoshkumar G., Ghosh P.	2020	123	-
381.	Computers and Geotechnics	System reliability analysis of geosynthetic reinforced soil slope considering local reinforcement failure	Peng M., Sun R., Chen J.-F., Rajesh S., Zhang L.-M., Yu S.-B.	2020	123	-
382.	Journal of Hydrology	A framework for the hydrological assessment of at-site bankfull discharge-width for (semi-) incised Ganga river in Middle Ganga plains	Modi A., Tare V., Medhi H., Rai P.K.	2020	586	-
383.	Computers and Geotechnics	Axial dynamic response of concrete-filled tapered fiber reinforced polymer piles in a transversely isotropic medium	Singh S., Patra N.R.	2020	123	-
384.	Quarterly Journal of the Royal Meteorological Society	Spatial and temporal variability in energy and water vapour fluxes observed at seven sites on the Indian subcontinent during 2017	Bhat G.S., Morrison R., Taylor C.M., Bhattacharya B.K., Paleri S., Desai D., Evans J.G., Pattnaik S., Sekhar M., Nigam R., Sattar A., Angadi S.S., Kacha	2020	146	2853-2866

			D., Patidar A., Tripathi S.N., Krishnan K.V.M., Sisodiya A.			
385.	Quarterly Journal of the Royal Meteorological Society	Interaction of convective organization with monsoon precipitation, atmosphere, surface and sea: The 2016 INCOMPASS field campaign in India	Turner A.G., Bhat G.S., Martin G.M., Parker D.J., Taylor C.M., Mitra A.K., Tripathi S.N., Milton S., Rajagopal E.N., Evans J.G., Morrison R., Pattnaik S., Sekhar M., Bhattacharya B.K., Madan R., Govindankutty M., Fletcher J.K., Willetts P.D., Menon A., Marsham J.H., Hunt K.M.R., Chakraborty T., George G., Krishnan M., Sarangi C., Belušić D., Garcia- Carreras L., Brooks M., Webster S., Brooke J.K., Fox C., Harlow R.C., Langridge J.M., Jayakumar A., Böing S.J., Halliday O., Bowles J., Kent J., O'Sullivan D., Wilson A., Woods C., Rogers S., Smout-Day R., Tiddeman D., Desai	2020	146	2828-2852

			D., Nigam R., Paleri S., Sattar A., Smith M., Anderson D., Bauguitte S., Carling R., Chan C., Devereau S., Gratton G., MacLeod D., Nott G., Pickering M., Price H., Rastall S., Reed C., Trembath J., Woolley A., Volonté A., New B.			
386.	Atmospheric Chemistry and Physics	Source characterization of volatile organic compounds measured by proton-transfer-reaction time-of-flight mass spectrometers in Delhi, India	Wang L., Slowik J.G., Tripathi N., Bhattu D., Rai P., Kumar V., Vats P., Satish R., Baltensperger U., Ganguly D., Rastogi N., Sahu L.K., Tripathi S.N., Prévôt A.S.H.	2020	20	9753-9770
387.	SN Applied Sciences	Assessment of pine cone derived activated carbon as an adsorbent in defluoridation	Thakur R.S., Katoch S.S., Modi A.	2020	2	-
388.	ISPRS Journal of Photogrammetry and Remote Sensing	Deep learning networks for selection of measurement pixels in multi-temporal SAR interferometric processing	Tiwari A., Narayan A.B., Dikshit O.	2020	166	169-182
389.	Environmental Pollution	Improved method to apportion optical absorption by black and brown carbon under the influence of haze and fog at Lumbini, Nepal, on the Indo-Gangetic Plains	Izhar S., Gupta T., Panday A.K.	2020	263	-

390.	Nature	Bending the curve of terrestrial biodiversity needs an integrated strategy	Leclère D., Obersteiner M., Barrett M., Butchart S.H.M., Chaudhary A., De Palma A., DeClerck F.A.J., Di Marco M., Doelman J.C., Dürauer M., Freeman R., Harfoot M., Hasegawa T., Hellweg S., Hilbers J.P., Hill S.L.L., Humpenöder F., Jennings N., Krisztin T., Mace G.M., Ohashi H., Popp A., Purvis A., Schipper A.M., Tabeau A., Valin H., van Meijl H., van Zeist W.-J., Visconti P., Alkemade R., Almond R., Bunting G., Burgess N.D., Cornell S.E., Di Fulvio F., Ferrier S., Fritz S., Fujimori S., Grooten M., Harwood T., Havlík P., Herrero M., Hoskins A.J., Jung M., Kram T., Lotze-Campen H., Matsui T., Meyer C., Nel D., Newbold T., Schmidt-Traub G., Stehfest E.,	2020	585	551-556
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			Strassburg B.B.N., van Vuuren D.P., Ware C., Watson J.E.M., Wu W., Young L.			
391.	Tectonophysics	Spatial distribution of earthquake potential along the Himalayan arc	Sharma Y., Pasari S., Ching K.-E., Dikshit O., Kato T., Malik J.N., Chang C.-P., Yen J.-Y.	2020	791	-
392.	Geocarto International	Seasonal and trend analysis of TWS for the Indo-Gangetic plain using GRACE data	Srivastava S., Dikshit O.	2020	35	1343-1359
393.	IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)	Effect of Pansharpening in Fusion Based Change Detection of Snow Cover Using Convolutional Neural Networks	Maurya A.K., Varade D.M., Dikshit O.	2020	37	465-475
394.	Sustainability (Switzerland)	Nutritional and environmental sustainability of lentil reformulated beef burger	Chaudhary A., Tremorin D.	2020	12	-
395.	International Journal of Geomechanics	Seismic Stability of a Broken-Back Retaining Wall Using Adaptive Collapse Mechanism	Santhoshkumar G., Ghosh P.	2020	20	-
396.	Resources, Conservation and Recycling	Nutritional and environmental losses embedded in global food waste	Chen C., Chaudhary A., Mathys A.	2020	160	-
397.	Chemosphere	A framework for PM2.5 constituents-based (including PAHs) emission inventory and source toxicity for priority	Pathak A.K., Sharma M., Nagar P.K.	2020	255	-

		controls: A case study of Delhi, India				
398.	Marine Georesources and Geotechnology	Vertical uplift resistance of close-spaced shallow rectangular group anchor plates embedded in sand	Ganesh R.	2020	38	1070-1081
399.	Journal of Water and Health	Extended-spectrum beta-lactamase (ESBL)-positive Escherichia coli presence in urban aquatic environments in Kanpur, India	Johnson A., Ginn O., Bivins A., Rocha-Melogno L., Tripathi S.N., Brown J.	2020	18	849-854
400.	Transportation Research Part F: Traffic Psychology and Behaviour	Analysis of overtaking patterns of Indian drivers with data collected using a LiDAR	Soni R., Vasudevan V., Dutta B.	2020	74	139-150
401.	Transportation Research Part F: Traffic Psychology and Behaviour	Pedestrian temporal gap acceptance behavior at unsignalized intersections in Kanpur, India	Vasudevan V., Mehta M., Dutta B.	2020	74	95-103
402.	Acta Geotechnica	Seismic stability analysis of a hunchbacked retaining wall under passive state using method of stress characteristics	Santhoshkumar G., Ghosh P.	2020	15	2969-2982
403.	Environmental Research Letters	Post-monsoon air quality degradation across Northern India: Assessing the impact of policy-related shifts in timing and amount of crop residue burnt	Sembhi H., Wooster M., Zhang T., Sharma S., Singh N., Agarwal S., Boesch H., Gupta S., Misra A., Tripathi S.N., Mor S., Khaiwal R.	2020	15	-
404.	Ocean Engineering	Offshore wind turbine monopile foundations: Design perspectives	Gupta B.K., Basu D.	2020	213	-
405.	Soil Dynamics	Seismic stability analysis of	Kokane A.K.,	2020	137	-

	and Earthquake Engineering	nailed vertical cut using modified pseudo-dynamic method	Sawant V.A., Sahoo J.P.			
406.	IETE Technical Review (Institution of Electronics and Telecommunic ation Engineers, India)	Effect of Pansharpening in Fusion Based Change Detection of Snow Cover Using Convolutional Neural Networks	Maurya A.K., Varade D.M., Dikshit O.	2020	37	465-475
407.	Science of the Total Environment	Chemical characterization of PM2.5 and source apportionment of organic aerosol in New Delhi, India	Tobler A., Bhattu D., Canonaco F., Lalchandani V., Shukla A., Thamban N.M., Mishra S., Srivastava A.K., Bisht D.S., Tiwari S., Singh S., Močnik G., Baltensperger U., Tripathi S.N., Slowik J.G., Prévôt A.S.H.	2020	745	-
408.	Road Materials and Pavement Design	In search of a possible size- demarcation between load bearing and suspended aggregates in asphalt mixture—an experimental approach	Kuity A., Das A.	2020	21	2264-2281
409.	Science of the Total Environment	Real-time measurement and source apportionment of elements in Delhi's atmosphere	Rai P., Furger M., El Haddad I., Kumar V., Wang L., Singh A., Dixit K., Bhattu D., Petit J.-E., Ganguly D., Rastogi N., Baltensperger U., Tripathi S.N., Slowik	2020	742	-

			J.G., Prévôt A.S.H.			
410.	European Journal of Environmental and Civil Engineering	Estimation of aggregate gradation from partial gradation information obtained by multiple imaging equipment	Kuity A., Das A.	2020	24	2255-2269
411.	SN Applied Sciences	Comparison of ambient air pollution levels of Amritsar during foggy conditions with that of five major north Indian cities: multivariate analysis and air mass back trajectories	Yadav R., Bhatti M.S., Kansal S.K., Das L., Gilhotra V., Sugha A., Hingmire D., Yadav S., Tandon A., Bhatti R., Goel A., Mandal T.K.	2020	2	-
412.	Arabian Journal of Geosciences	Visco-elastic response of combined footings on earth beds with geocell-geomembrane inclusions	Maheshwari P., Basudhar P.K.	2020	13	-
413.	International Journal of Geomechanics	Coupled Bearing Capacity Factor for Strip Foundations on Cohesive-Frictional Soil Slopes under Static and Seismic Conditions	Ganesh R., Sahoo J.P.	2020	20	-
414.	Journal of Structural Engineering (United States)	Normalized Residual Displacements for Bilinear and Pinching Oscillators	Saifullah M., Gupta V.K.	2020	146	-
415.	KSCE Journal of Civil Engineering	Seismic Performance of Footings on Stone Columns Treated Dry Sand Beds	Maheshwari P., Kumar Yadav N., Sahoo J.P.	2020	24	3230-3236
416.	Geochimica et Cosmochimica Acta	Transformation of calcite to fluorapatite at room temperature: Impact of initial phosphate and fluoride levels	Ekamparam A.S.S., Singh A.	2020	288	16-35
417.	Journal of Hydrology	Effects of soil heterogeneity on subsurface water movement in	Yetbarek E., Kumar S., Ojha R.	2020	590	-

		agricultural fields: A numerical study				
418.	Journal of Hydrology	Numerical investigation of streamtube approach to model flow in heterogeneous unsaturated sandy soils	Kumar S., Yetbarek E., Ojha R.	2020	590	-
419.	CIRP Journal of Manufacturing Science and Technology	Evaluating tool point dynamics using output-only modal analysis with mass-change methods	Gupta P., Law M., Mukhopadhyay S.	2020	31	251-264
420.	Journal of Earthquake Engineering	Dynamic Behavior of a Geotextile-Reinforced Pond Ash Embankment	Vijayasri T., Raychowdhury P., Patra N.R.	2020	24	1803-1828
421.	Science of the Total Environment	Climatological trends in satellite-derived aerosol optical depth over North India and its relationship with crop residue burning: Rural-urban contrast	Singh T., Ravindra K., Sreekanth V., Gupta P., Sembhi H., Tripathi S.N., Mor S.	2020	748	-
422.	Atmospheric Chemistry and Physics	Aerosol-enhanced high precipitation events near the Himalayan foothills	Choudhury G., Tyagi B., Krishna Vissa N., Singh J., Sarangi C., Nand Tripathi S., Tesche M.	2020	20	15389-15399
423.	SN Applied Sciences	A study on buckling of simply supported plates with edges partially restrained for in-plane movement	Prajapat K., Ray-Chaudhuri S., Kumar A.	2020	2	-
424.	Scientific Reports	Logistic regression analysis of environmental and other variables and incidences of tuberculosis in respiratory patients	Pathak A.K., Sharma M., Katiyar S.K., Katiyar S., Nagar P.K.	2020	10	-
425.	Geotechnique Letters	Strain-rate-dependent energy redistribution during isotropic confined comminution	Das S.K., Das A.	2020	10	542-549
426.	Scientific	Large global variations in	McNeill J., Snider	2020	10	-

	Reports	measured airborne metal concentrations driven by anthropogenic sources	G., Weagle C.L., Walsh B., Bissonnette P., Stone E., Abboud I., Akoshile C., Anh N.X., Balasubramanian R., Brook J.R., Coburn C., Cohen A., Dong J., Gagnon G., Garland R.M., He K., Holben B.N., Kahn R., Kim J.S., Lagrosas N., Lestari P., Liu Y., Jeba F., Joy K.S., Martins J.V., Misra A., Norford L.K., Quel E.J., Salam A., Schichtel B., Tripathi S.N., Wang C., Zhang Q., Brauer M., Gibson M.D., Rudich Y., Martin R.V.			
427.	Aerosol and Air Quality Research	Spatio-seasonal concentrations, source apportionment and assessment of associated human health risks of pm2.5-bound polycyclic aromatic hydrocarbons in delhi, india	Yadav A., Behera S.N., Nagar P.K., Sharma M.	2020	20	2805-2825
428.	Journal of Hydrology	A unified depth-averaged approach for integrated modeling of surface and subsurface flow systems	Kumar A., Pahar G.	2020	591	-
429.	Sadhana - Academy Proceedings in	Large-scale testing and finite-element simulation of twin square anchor plates embedded at	Srinivasan V., Ghosh P.	2020	45	-

	Engineering Sciences	shallow depth in layered soil media				
430.	Ocean Engineering	Seismic stability of obliquely loaded circular plate anchors	Ganesh R., Sahoo J.P.	2020	217	-
431.	Modeling Earth Systems and Environment	Modeling rainfall-runoff process using artificial neural network with emphasis on parameter sensitivity	Vidyarthi V.K., Jain A., Chourasiya S.	2020	6	2177-2188
432.	Journal of Industrial Ecology	LC-IMPACT: A regionalized life cycle damage assessment method	Verones F., Hellweg S., Antón A., Azevedo L.B., Chaudhary A., Cosme N., Cucurachi S., de Baan L., Dong Y., Fantke P., Golsteijn L., Hauschild M., Heijungs R., Jolliet O., Juraske R., Larsen H., Laurent A., Mutel C.L., Margni M., Núñez M., Owsianiak M., Pfister S., Ponsioen T., Preiss P., Rosenbaum R.K., Roy P.-O., Sala S., Steinmann Z., van Zelm R., Van Dingenen R., Vieira M., Huijbregts M.A.J.	2020	24	1201-1219
433.	Journal of the Indian Society of Remote Sensing	A UAV Traffic Management System for India: Requirement and Preliminary Analysis	Yadav A., Goel S., Lohani B., Singh S.	2021	49	515-525
434.	Environmental	Absorption properties and forcing	Choudhary V.,	2021	272	-

	Pollution	efficiency of light-absorbing water-soluble organic aerosols: Seasonal and spatial variability	Rajput P., Gupta T.			
435.	International Journal of Geomechanics	Pullout Behavior of Triaxial Geogrid Embedded in a Transparent Soil	Chen J.-F., Prof., Gu Z.-A., Rajesh S., A.m.asce, Yu S.-B.	2021	21	-
436.	Geotechnical Testing Journal	An apparatus to measure gas diffusion and gas permeability of unsaturated cap barriers subjected to distortion	Rajesh S., Khan V.	2021	44	-
437.	Geotechnical Testing Journal	Test apparatus for rapid determination of soil-water retention curve under isotropic loading condition	Roy S., Rajesh S.	2021	44	-
438.	Environmental Monitoring and Assessment	Spatio-temporal trends in the flow and water quality: response of river Yamuna to urbanization	Lokhande S., Tare V.	2021	193	-
439.	Proceedings of the Institution of Civil Engineers: Municipal Engineer	Development of consequence of failure index for water and wastewater pipelines	Agrawal C., Misra S., Sinha S., Vasudevan V.	2021	174	32-42
440.	Geophysical Research Letters	Regional Drought Risk in the Contiguous United States	Apurv T., Cai X.	2021	48	-
441.	Atmospheric Research	Absorption and radiative characteristics of brown carbon aerosols during crop residue burning in the source region of Indo-Gangetic Plain	Choudhary V., Singh G.K., Gupta T., Paul D.	2021	249	-
442.	Geotextiles and Geomembranes	Centrifuge modeling of geosynthetic-encased stone column-supported embankment over soft clay	Chen J.-F., Li L.-Y., Zhang Z., Zhang X., Xu C., Rajesh S., Feng S.-Z.	2021	49	210-221

443.	Soil Dynamics and Earthquake Engineering	Effects of rocking coefficient and critical contact area ratio on the performance of rocking foundations from centrifuge and shake table experimental results	Gajan S., Soundararajan S., Yang M., Akchurin D.	2021	141	-
444.	Environmental Pollution	Understanding the origin of carbonaceous aerosols during periods of extensive biomass burning in northern India	Singh G.K., Choudhary V., Rajeev P., Paul D., Gupta T.	2021	270	-
445.	Journal of Hydrologic Engineering	Diffusion Wave Approximation of Depth-Averaged Flow Interaction with Porous Media	Bhat N.U.H., Pahar G.	2021	26	-
446.	Soil Dynamics and Earthquake Engineering	An improved probabilistic seismic hazard mapping of peninsular shield region of India	Scaria A., Gupta I.D., Gupta V.K.	2021	141	-
447.	Soil Dynamics and Earthquake Engineering	A note on spectral velocity approximation at shorter intermediate periods	Pal A., Gupta V.K.	2021	141	-
448.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	Effect of Pre-induced Plastic Strains on the Corrosion Behavior of Reinforcing Bar in 3.5 pct NaCl Solution	Behera P.K., Katiyar P.K., Misra S., Mondal K.	2021	52	605-626
449.	Atmospheric Environment	First surface measurement of variation of Cloud Condensation Nuclei (CCN) concentration over the Pristine Himalayan region of Garhwal, Uttarakhand, India	Gautam A.S., Tripathi S.N., Joshi A., Mandariya A.K., Singh K., Mishra G., Kumar S., Ramola R.C.	2021	246	-
450.	SN Applied Sciences	Static and dynamic characterization and response analysis of soils from northern	Kundu A., Patra N.R., Bandyopadhyay S.,	2021	3	-

		India	Reddy G.R.			
451.	Remote Sensing	The Indian COSMOS network (ICON): Validating L-band remote sensing and modelled soil moisture data products	Upadhyaya D.B., Evans J., Muddu S., Tomer S.K., Bitar A.A., Yeggina S., S T., Morrison R., Fry M., Tripathi S.N., Mujumdar M., Goswami M., Ganeshi N., Nema M.K., Jain S.K., Angadi S.S., Yenagi B.S.	2021	13	-
452.	Atmospheric Pollution Research	Multi-pollutant air quality analyses and apportionment of sources in three particle size categories at Taj Mahal, Agra	Nagar P.K., Gargava P., Shukla V.K., Sharma M., Pathak A.K., Singh D.	2021	12	210-218
453.	Atmospheric Pollution Research	Temporal and spatial variability of carbonaceous species (EC; OC; WSOC and SOA) in PM _{2.5} aerosol over five sites of Indo-Gangetic Plain	Bhowmik H.S., Naresh S., Bhattu D., Rastogi N., Prévôt A.S.H., Tripathi S.N.	2021	12	375-390
454.	International Journal of Structural Stability and Dynamics	Scale Dependent Critical External Pressure for Buckling of Spherical Shell Based on Nonlocal Strain Gradient Theory	Alam M., Mishra S.K., Kant T.	2021	21	-
455.	Urban Climate	Chemical characterization, source identification and health risk assessment of polycyclic aromatic hydrocarbons in ambient particulate matter over central Indo-Gangetic Plain	Rajeev P., Singh A.K., Singh G.K., Vaishya R.C., Gupta T.	2021	35	-
456.	Atmospheric Measurement Techniques	Robust statistical calibration and characterization of portable low-cost air quality monitoring sensors to quantify real-time O ₃ and NO ₂	Sahu R., Nagal A., Dixit K.K., Unnibhavi H., Mantravadi S., Nair	2021	14	37-52

		concentrations in diverse environments	S., Simmhan Y., Mishra B., Zele R., Sutaria R., Motghare V.M., Kar P., Tripathi S.N.			
457.	Ecological Engineering	A secondary assessment of sediment trapping effectiveness by vegetated buffers	Ramesh R., Kalin L., Hantush M., Chaudhary A.	2021	159	-
458.	Atmospheric Chemistry and Physics	Highly time-resolved measurements of element concentrations in PM10 and PM2.5: Comparison of Delhi, Beijing, London, and Krakow	Rai P., Slowik J.G., Furger M., El Haddad I., Visser S., Tong Y., Singh A., Wehrle G., Kumar V., Tobler A.K., Bhattu D., Wang L., Ganguly D., Rastogi N., Huang R.-J., Necki J., Cao J., Tripathi S.N., Baltensperger U., Prevot A.S.H.	2021	21	717-730
459.	Journal of the Indian Society of Remote Sensing	Comprehensive Airborne Laser Scanning Simulation	Dayal, S., Goel, S., Lohani, B., Mittal, N., and Mishra, R. K.	2021	49	1603-1622
460.	Transactions in GIS	Identification of Parking Spaces from Multi-Modal Trajectory Data	Dey, S., Winter, S., Goel, S. and Tomko, M.	2021	Accepted (in press)	Accepted (in press)
461.	Structural Control and Health Monitoring	Inerter assisted robustness of compliant liquid column damper	Pandey D. K., Mishra S. K.	2021		
462.	Soil Dynamics and Earthquake Engineering	Amplification of seismic demands in inter-storey-isolated buildings subjected to near fault pulse type ground motions	Saha A., Mishra S. K.	2021	147	106771

463.	Journal of Building Engineering	Behavior of torsionally coupled buildings isolated by super-elastic bearing subjected to earthquakes	Shyamsundar L., Pandey D. K., Mishra S. K.	2021	43	102573
464.	Journal of Composite Structures	Nonlinear Vibration of Nonlocal Strain Gradient Functionally Graded Beams on Nonlinear Compliant Substrate	Alam M., Mishra S. K.	2021		
465.	International Journal of Structural Stability and Dynamics	Scale Dependent Critical External Pressure for Buckling of Spherical Shell based on Nonlocal Strain Gradient Theory	Alam M., Mishra S. K., Kant T.	2021		
466.	Engineering Computations	Development of semi-implicit midpoint and Romberg stress integration algorithms for single hardening soil constitutive models	Lal, D.K., Das, A.	2020	37	3477-3503
467.	Géotechnique Letters	Stiffness degradation in granular materials due to chemical dissolution	Viswanath, P., Das, A.	2020	10	88-94
468.	Frontiers in Built Environment, section Wind Engineering and Science	NHERI Lehigh Experimental Facility with Large-Scale Multi-Directional Hybrid Simulation Testing Capabilities	Cao, L., Marullo, T.M., Al-Subaihawi, S., Kolay, C. , Amer, A., Ricles, J.M., Sause, R., and Kusko, C	2020		
469.	International Journal of Lifecycle Performance Engineering (Special Issue on Hybrid Simulation for Multi-Hazard Engineering)	Multi-Hazard Real-Time Hybrid Simulation of a Tall Building with Damped Outriggers	Kolay, C., Al-Subaihawi, S., Marullo, T. M., Ricles, J. M., and Quiel, S. E	2020		103-132
470.	Engineering	Assessment of Wind-Induced	Al-Subaihawi,	2020	205	110044

	Structures	Vibration Mitigation in a Tall Building With Damped Outriggers Using Real-Time Hybrid Simulations	S., Kolay, C. , Marullo, T. M., Ricles, J. M., and Quiel, S. E			
471.	Journal of Engineering Mechanics	Discussion of “Choices of Structure-Dependent Pseudodynamic Algorithms” by S-Y Chang	Kolay, C. and Ricles, J.M	2020	146	
472.	Canadian Journal of Civil Engineering	Rectification of a large vertical wall surface for flatness	Garg, S., Bajpai, K.K., Misra, S.	2021	48	584-593
473.	Metallurgical and Materials Transactions A	Effect of Pre-induced Plastic Strains on the Corrosion Behavior of Reinforcing Bar in 3.5 pct NaCl Solution	Behera,P.K., Katiyar, P.K., Misra, S., Mondal, K.	2021	52	605-626
474.	Engineering, Construction and Architectural Management	Understanding the components and magnitude of the cost of quality in building construction	Garg, S., Misra, S.	2021	Upcoming article	Upcoming article
475.	Proceedings of the Institution of Civil Engineers- Municipal Engineer	Development of consequence of failure index for water and wastewater pipelines	Agrawal, C., Misra, S., Sinha, S., Vasudevan, V.	2021	174	32-42
476.	Journal of Big Data Analytics in Transportation	Applications of Deep Learning in Intelligent Transportation Systems	Haghighat A. K., Ravichandra-Mouli V., Chakraborty P., Esfandiari Y., Arabi S., Sharma A.	2020	35	641-662
477.	Tunneling and Underground Space Technology,	Peripheral stability of circular tunnels in anisotropic undrained clay	Sahoo, J. P. and Kumar, B	2021	114	103-898

	Elsevier					
478.	Computers and Geotechnics, Elsevier	Stability of unsupported circular tunnels in anisotropic normally and over consolidated saturated clay	Kumar, B. and Sahoo, J. P.	2021	135	104-148
479.	Proceedings of the Institution of Civil Engineers, Geotechnical Engineering	Active thrust of sand with anisotropic seepage: A generalized limit equilibrium approach	Ganesh, R., Khuntia, S. and Sahoo, J. P.	2021		
480.	Ocean Engineering, Elsevier	Seismic stability of obliquely loaded circular plate anchors	Ganesh, R., and Sahoo, J. P.	2020		
481.	KSCE, Geotechnical Engineering	Seismic performance of footings on stone columns treated dry sand beds	Maheshwari, P., Yadav, N. K., and Sahoo, J. P.	2020		
482.	International Journal of Geomechanics , ASCE	Coupled bearing capacity factor for strip foundations on cohesive-frictional soil slopes under static and seismic conditions	Ganesh, R., and Sahoo, J. P.	2020		
483.	Soil Dynamics and Earthquake Engineering	Seismic stability analysis of nailed vertical cut using modified pseudo-dynamic method	Kokane, A., Sawant, V. A., and Sahoo, J. P.	2020	137	106-294
484.	Journal of Earthquake Engineering (Taylor and Francis)	Soil–structure interaction study on 3D SMRFs of Indo-Gangetic plain using resonant vibration tests	Vivek, B. and Raychowdhury, P	2020		
485.	Journal of Hydrology	Effects of soil heterogeneity on subsurface water movement in agricultural fields: A numerical study	E. Yetbarek, S. Kumar, and R. Ojha	2020	590	1-15
486.	Journal of Hydrology	Numerical Investigation of streamtube approach to model	S. Kumar, E. Yetbarek, and R.	2020	590	1-12

		flow in heterogeneous unsaturated soils	Ojha			
487.	Agricultural Water Management	Spatio-temporal variability of soil moisture in a cropped agricultural plot within the Ganga Basin	E. Yetbarek, and R. Ojha	2020	234	1-13
488.	Environmental Engineering Science	Modified biosand filter for provisioning of potable water to rural households affected by chronic arsenic pollution in groundwater.	Verma, A., Sharma, L.M., Pahuja, G., Nilling, J.J., Kumar, A., and Singh, A.	2021		
489.	International Journal of Geomechanics	Free and forced vibration analysis of tapered piles under axial harmonic loads	Singh, S. and Patra, N. R	2021		
490.	Indian Geotechnical Journal	Experimental and Numerical Investigation on Undrained Behavior of Geogrid Reinforced Pond Ash	Chowdhury, S., and Patra, N. R.	2021		10.1007/s40098-021-00540-9
491.	Journal of Earthquake Engineering, Taylor and Francis	Lateral Dynamic Response of Tapered Pile Embedded in a Cross-Anisotropic Medium	Singh, S. and Patra, N. R.	2021		https://doi.org/10.1080/13632469.2021.1891157 .
492.	SN Applied Sciences, Springer	Static and dynamic characterization and response analysis of soils from northern India	Kundu, A., Patra, N. R., Bandyopadhyay, S. and Reddy, G. R.	2021		https://doi.org/10.1007/s42452-021-04196-1
493.	Geosynthetic International, ICE publication	Undrained Response of Geocell Confined Pond Ash Samples under Static and Cyclic Loading	Chowdhury, S., and Patra, N. R.	2021		https://doi.org/10.1680/jgein.21.00006 .
494.	Computers and Geotechnics	Axial Dynamic Response of Concrete-Filled tapered Fiber Reinforced Polymer Piles in a	Singh, S. and Patra, N. R.	2021		https://doi.org/10.1016/j.compgeo .

		Transversely Isotropic Medium				2020.10355 7
Cognitive Science						
495.	Frontiers in Psychology	Consciousness Without Content: A Look at Evidence and Prospects	Srinivasan N.	2020	11	1992
496.	Mindfulness	Mindfulness Meditation Weakens Attachment to Self: Evidence from a Self vs Other Binding Task	Chiarella S.G., Makwana M., Simione L., Hartkamp M., Calabrese L., Raffone A., Srinivasan N.	2020	11	2411-2422
497.	Royal Society Open Science	Group congruent labelling leads to subjective expansion of time: Group labelling and time perception	Tewari S., Makwana M., Srinivasan N.	2020	7	201063
498.	Mindfulness	Meditators Exercise Better Endogenous and Exogenous Control of Visual Awareness	Srinivasan N., Tripathi S., Singhal I.	2020	11	2705-2714
499.	Scientific Reports	The role of action intentionality and effector in the subjective expansion of temporal duration after saccadic eye movements	Melcher, D., Kumar, D., Srinivasan, N.	2020	10	16922
500.	Frontiers in Psychology	Editorial: Neurophysiology of silence: Neuroscientific, psychological, educational and contemplative perspectives	Ben-Soussan, T. D., Srinivasan, N., Glicksohn, J., Beziau, J-Y, Carducci, F., Berkovich-Ohana, A.	2021	12	1124
501.	Biochemistry and Molecular Biology Education	Quality of concept maps is affected by map building strategies	Srivastava A., Srivastava N., Chandrasekharan S.	2021	49	129-139
Computer Science and Engineering						
502.	IEEE Journal on Selected	Acceleration of Deep Convolutional Neural Networks	Singh P., Verma V.K., Rai P.,	2020	14	838-847

	Topics in Signal Processing	Using Adaptive Filter Pruning	Namboodiri V.P.			
503.	IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems	Approaches for Assigning Offsets to Signals for Improving Frame Packing in CAN-FD	Joshi P., Ravi S.S., Liu Q., Bordoloi U.D., Samii S., Shukla S.K., Zeng H.	2020	39	1109-1122
504.	SN Applied Sciences	A medoid-based weighting scheme for nearest-neighbor decision rule toward effective text categorization	Mukherjee A., Basu T.	2020	2	-
505.	Parallel Processing Letters	All Nearest Smaller Made Simple	Saxena S.	2020	30	-
506.	Proceedings of the VLDB Endowment	ChiSeL: Graph similarity search using chi-squared statistics in large probabilistic graphs	Agarwal S., Dutta S., Bhattacharya A.	2020	13	1654-1668
507.	Image and Vision Computing	EDS pooling layer	Singh P., Raj P., Namboodiri V.P.	2020	98	-
508.	Journal of Optics (United Kingdom)	Phase matching in β -barium borate crystals for spontaneous parametric down-conversion	Karan S., Aarav S., Bharadhwaj H., Taneja L., De A., Kulkarni G., Meher N., Jha A.K.	2020	22	-
509.	ACM Transactions on Design Automation of Electronic Systems	Strong Logic Obfuscation with Low Overhead against IC Reverse Engineering Attacks	Alasad Q., Yuan J.-S., Subramanyan P.	2020	25	-
510.	ACM Transactions	Approximate Single-Source Fault Tolerant Shortest Path	Baswana S., Choudhary K.,	2020	16(4)	44:1--44:22

	on Algorithms		Hussain M., Roditty L.			
511.	IEEE Embedded Systems Letters	Shared Pattern History Tables in Multicomponent Branch Predictors with a Dealiasing Cache	Das M., Banerjee A., Chaudhuri M., Sardar B.	2020	12	95-98
512.	International Journal of Computer Vision	HetConv: Beyond Homogeneous Convolution Kernels for Deep CNNs	Singh P., Verma V.K., Rai P., Namboodiri V.P.	2020	128	2068-2088
513.	Journal of Combinatorial Optimization	A completely positive formulation of the graph isomorphism problem and its positive semidefinite relaxation	Aurora P., Mehta S.K.	2020	40	590-609
514.	Electronics (Switzerland)	Analysis of area-efficiency vs. Unrolling for eSTREAM hardware portfolio stream ciphers	Alharbi F., Hameed M.K., Chowdhury A., Khalid A., Chattopadhyay A., Javed I.T.	2020	9	1-17
515.	IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems	Specification-Guided Automated Debugging of CPS Models	Singh N.K., Saha I.	2020	39	4142-4153
516.	Image and Vision Computing	GIFSL - grafting based improved few-shot learning	Mazumder P., Singh P., Namboodiri V.P.	2020	104	-
517.	Nature Communications	Single-cell lineage tracing by integrating CRISPR-Cas9 mutations with transcriptomic data	Zafar H., Lin C., Bar-Joseph Z.	2020	11	-
518.	IEEE Transactions on Knowledge	TIPS: Mining Top-K Locations to Minimize User-Inconvenience for Trajectory-Aware Services	Mitra S., Saraf P., Bhattacharya A.	2021	33	1238-1250

	and Data Engineering					
519.	Biochemistry and Molecular Biology Education	Quality of concept maps is affected by map building strategies	Srivastava A., Srivastava N., Chandrasekharan S.	2021	49	129-139
520.	Indian Journal of Medical Research	Modelling the spread of SARS-CoV-2 pandemic-Impact of lockdowns & interventions	Agrawal M., Kanitkar M., Vidyasagar M.	2021	153	175-181
521.	Pattern Recognition	Probabilistic framework for solving visual dialog	Patro B.N., Anupriy, Namboodiri V.P.	2021	110	-
522.	International Journal of Information Management	Industry Norms as Predictors of IT Outsourcing Behaviors	Prawesh S., Chari K., Agrawal M.	2021	56	-
523.	Biochemistry and Molecular Biology Education	Quality of concept maps is affected by map building strategies	Srivastava A., Srivastava N., Chandrasekharan S.	2021	49	129-139
524.	Indian Journal of Medical Research	Modelling the spread of SARS-CoV-2 pandemic-Impact of lockdowns & interventions	Agrawal M., Kanitkar M., Vidyasagar M.	2021	153	175-181
525.	Atmospheric Measurement Techniques	Robust statistical calibration and characterization of portable low-cost air quality monitoring sensors to quantify real-time O3 and NO2 concentrations in diverse environments	Sahu R., Nagal A., Dixit K.K., Unnibhavi H., Mantravadi S., Nair S., Simmhan Y., Mishra B., Zele R., Sutaria R., Motghare V.M., Kar P., Tripathi S.N.	2021	14	37-52
526.	Neurocomputing	Revisiting paraphrase question generator using pairwise discriminator	Patro B.N., Chauhan D., Kurmi V.K., Namboodiri V.P.	2021	420	149-161
527.	Transactions of the Indian	Epidemiologically and Socio-economically Optimal Policies via	Chandak A., Dey D., Mukhoty B., and Kar	2021	5	117-127

	National Academy of Engineering	Bayesian Optimization	P.			
528.	Management Science	Preference Elicitation For Participatory Budgeting	Gerdus Benadè, Swaprava Nath, Ariel D. Procaccia, and Nisarg Shah	2020	67(5)	2813-2827
529.	Theoretical Computer Science	A Parameterized Perspective on Protecting Elections	Palash Dey, Neeldhara Misra, Swaprava Nath, and Garima Shakya	2021	874	15-31
530.	International Journal of High Performance Computing Applications	A terminology for in situ visualization and analysis systems	H.Childs,...,P.Malakar, (multiple authors)	2020	34(6)	676-691
Earth Sciences						
531.	Episodes,	Proterozoic Alkaline rocks and carbonatites of Peninsular India: A review.	Paul, D., J. Chandra, M. Halder	2020	49(1)	249-277
532.	Atmospheric Pollution Research,	Investigation of size distribution and mass characteristics of ambient aerosols emitted from combustion of paddy-residue sources during post-monsoon in Northern India.	Singh G.K., V. Choudhary, T. Gupta, D. Paul,	2020	11	170-178
533.	Plant Physiology and Biochemistry	Root architecture traits variation and nitrate-influx responses in diverse wheat genotypes under different external nitrogen concentrations.	Sinha, S.K., A. Kumar, A.Tyagi, K. Venakatesh, D. Paul, N. K. Singh, P. K. Mandal	2020	148	246-259
534.	Energy and Climate Change	Evaluation of hydrocarbon potential with insight into climate and environment present during deposition of the Sonari lignite,	Kumar, A., A. K. Singh, D. Paul, A. Kumar	2020		

		Barmer Basin, Rajasthan.				
535.	Science of the Total Environment	Chemical characterization and stable nitrogen isotope composition of nitrogenous component of ambient aerosols from Kanpur in the Indo-Gangetic Plains.	Singh G.K., P. Rajeev, D. Paul, T. Gupta	2020	763	143032
536.	Quaternary International,	Geochemistry of Holocene sediments from Chilika Lagoon, India: inferences on the sources of organic matter and variability of the Indian summer monsoon	Amir, M., D. Paul, J.N. Malik	2021	599-600	148-157
537.	Geoscience Frontiers	Rhyolites in continental mafic Large Igneous Provinces: Petrology, geochemistry and petrogenesis	Halder M., D. Paul, S. Sensarma	2021	12	53-80
538.	Atmospheric Research	Absorption and radiative characteristics of brown carbon aerosols during crop residue burning in the source region of Indo-Gangetic Plain	Choudhary V., Singh G.K., Gupta T., Paul D.	2021	249	105285
539.	Environmental Pollution,	Understanding the origin of carbonaceous aerosols during periods of extensive biomass burning in Northern India	Singh G.K., V. Choudhary, P. Rajeev, D. Paul, T. Gupta	2021	270	116082
540.	Precambrian Research	Evolution of a crustal-scale silicic to intermediate tectono-magmatic system: The ~2600–2300 Ma Bundelkhand granitoid, India	Sensarma S., Matin A., Paul D., Madhesiya A.K., Sarkar G.	2021	352	105951
541.	Aeolian Research	Constraining the timing and deposition pattern of loess-palaeosol sequences in Kashmir Valley, Western Himalaya: Implications to paleoenvironment studies	Shah R.A., Achyuthan H., Lone A.M., Jaiswal M.K., Paul D.	2021	49	100660
542.	Lithos	Major-trace element and Sr-Nd	Pandey, O.P., K.	2021	382-383	105959

		isotope compositions of mafic dykes of the Singhbhum Craton: Insights into evolution of the lithospheric mantle	Mezger, D. Upadhyay, D. Paul, A. K. Singh, U. Söderlund, A. Gumsley A.			
543.	Geochemistry, Geophysics, Geosystems	Teeth of past and present elephants: Microstructure and composition of enamel in fossilized proboscidean molars and implications for diagenesis.	Białas, N., O. Prymak, N. P. Singh, D. Paul, R. Patnaik, M. Epple	2021	22	e2020GC009557
544.	ACS Earth Space Chemistry	Major and trace element characteristics of Indian shale: implications for provenance, weathering, and depositional environment.	Ray E., D. Paul,	2021	5	1114-1129
545.	Geochemical Perspectives Letters	Tracing 'Third Pole' ice meltwater contribution to the Himalayan rivers using oxygen and hydrogen isotopes	Boral S., Sen I.S.	2020	13	48-53
546.	Environmental Science and Technology	Biomass-Derived Provenance Dominates Glacial Surface Organic Carbon in the Western Himalaya	Nizam S., Sen I.S., Vinoj V., Galy V., Selby D., Azam M.F., Pandey S.K., Creaser R.A., Agarwal A.K., Singh A.P., Bizimis M.	2020	54	8612-8621
547.	Journal of Hydrology	Contemporary inorganic carbon fluxes from rapidly changing glacierized watersheds of the Himalaya	Shukla T., Sundriyal S., Sen I.S.	2020	587	124972
548.	Geochemistry, Geophysics, Geosystems	Tracking Dissolved Trace and Heavy Metals in the Ganga River From Source to Sink: A Baseline to Judge Future Changes	Boral S., Sen I.S., Tripathi A., Sharma B., Dhar S.	2020	21	https://doi.org/10.1029/2020GC009203
549.	Spectrochimic	Simultaneous determination of	Mitra A., Sen I.S.,	2021	177	106052

	a Acta - Part B Atomic Spectroscopy	platinum group elements and rhenium mass fractions in road dust samples using isotope dilution inductively coupled plasma-tandem mass spectrometry after cation exchange separation	Walkner C., Meisel T.C.			
550.	Environmental Science and Technology Letters	A Time-Series Record during COVID-19 Lockdown Shows the High Resilience of Dissolved Heavy Metals in the Ganga River	Shukla T., Sen I.S., Boral S., Sharma S.	2021	8, 4	301-306
551.	Geomorpholog y	Morphometric diversity of supply-limited and transport- limited systems in the Himalaya foreland.	Swarnkar, S. Sinha, R. and Tripathi, S.	2020	348	106882
552.	Geomorpholo gy	Flood risk assessment in the Kosi alluvial plains (megafan) using multi-criteria decision analysis: a hydro-geomorphic approach.	Mishra, K. and Sinha, R.	2020	350	106861
553.	Quaternary International	EX-AQUA 2020: Paleohydrological extreme events, evidences and archives.	Fontana, A., Hergert, J., Toonen, W., Sinha, R.	2020	538	1-4
554.	Episodes	Evolution of modern river systems: an assessment of 'landscape memory' in the Indian river systems.	Jain, V., Sonam, Singh, A., Sinha, R. and Tandon, S.K.	2020	43(1)	535-551
555.	Geomorpholog y	Spatio-temporal variability in stream power distribution in the Upper Kosi River basin, Central Himalaya: controls and geomorphic implications.	Kaushal, R.K. Sarkar, A., Mishra, K., Sinha, R., Nepal, S. and Jain, V.	2020	350	106888
556.	Geomorpholog y	Distribution, diversity, and geomorphic evolution of floodplain wetlands and wetland complexes in the Ganga plains of	Singh, Manudeo and Sinha, R.	2020	351	106960,

		north Bihar, India.				
557.	Progress in Physical Geography	Spatial variation of groundwater stresses in a depleting alluvial aquifer system, northwestern India,	Van Dijk, V.M., Densmore, A.L., Jackson, C.R., Mackay, J.D., Joshi, S.K., Sinha, R., Gupta., S.	2020	44 (I)	94-119.
558.	Geological Society London Special Publication.	Understanding groundwater recharge processes in Sutlej-Yamuna plain in northwest India using isotopic approach.	Joshi, S.K., Rai, S.P. and Sinha, R.	2020	507	
559.	Science of the Total Environment	Understanding hydrogeomorphic and climatic controls on soil erosion and sediment dynamics in large Himalayan basins.	Swarnkar, Somil, Shivam Tripathi and Rajiv Sinha	2021	795	148972
560.	Journal of Hydrology	(2021). Strongly heterogeneous patterns of groundwater depletion in northwestern India.,	Joshi, S.K. Sanjeev Gupta, Rajiv Sinha, Shive Prakash Rai, Alexander Logan Densmore, Shashank Shekhar, Philippa J. Mason and W. M. van Dijk	2021	298	126492,
561.	Ecological Indicators	Hydrogeomorphic indicators of wetland health using multi-temporal remote sensing data and their application at a new Ramsar site (Kaabar Tal), India.,	Singh, Manudeo, and Sinha, R.	2021	127,	107739
562.	Earth Surface Processes and Landforms	(2021). Geomorphic diversity of the Indian sub-continent: progress and updates.	Sinha, R.	2021	46	1666-1672
563.	Earth Surface Processes and Landforms	Characteristic surface features and landforms of the Dhala impact structure occurring in Archean basement of the Bundelkhand	Singh, A.K., Jayanta Kumar Pati, Rajiv Sinha, Wolf Uwe Reimold, Kuldeep	2021	46	1482-1503

		Craton, north-central India.	Prakash, Mohammad Nadeem Shivanshu Dwivedi, Dhananjay Mishra and Akhil Kumar Dwivedi			
564.	Quaternary International	Active tectonics, landscape evolution and sediment dynamics in Dehra Dun, Northwest Himalaya inferred from geomorphic indices and GIS tools	Sinha, Swati and Sinha, Rajiv	2021	505	55-69
565.	Energy and Fuels	Role of Pore-Size Distribution in Coals to Govern the Klinkenberg Coefficient and Intrinsic Permeability.	Mukherjee, M. Bal, A. and <u>MISRA. S</u>	2021	35	
566.	Journal of Natural Gas Science and Engineering	Control of pore-size distribution on CO2 adsorption volume and kinetics in Gondwana coals: implications for shallow-depth CO2 sequestration potential.	Mukherjee, M. <u>MISRA. S.</u> and Gupta, A.	2021	89	
567.	Accepted for publication in Directions (Springer).	Electron Backscatter Diffraction Technique: Fundamentals and Applications.	Shekhar, S., Sharma, N.K. Sahu, S. and <u>MISRA. S.</u>	2021		
568.	Accepted for publication in Directions (Springer).	Application of Electron backscatter diffraction (EBSD) method in Earth Sciences.	Dutta, D., Maji, V., Abdullah, S. and <u>MISRA, S.</u>	2021		
569.	Journal of Structural Geology	Control of planar fabrics on the development of tensile damage zones under high-speed deformation: an experimental study with granite and gneiss.	Jacob, B., <u>MISRA, S.</u> Venkitanarayanan, P and Mandal, N.	2020	140	104148
570.	Journal of Structural Geology	Resurfacing of deeply buried oceanic crust in Naga Hills Ophiolite, North-East India: Petrofabric, Microstructure and	Abdullah, S., <u>MISRA, S. R.</u> Sarvesha and Ghosh, B.	2020	139	104141

		Seismic properties.				
571.	Transactions of the Indian National Academy of Engineering	Development of Autonomous Advanced Disinfection Tunnel to Tackle External Surface Disinfection of COVID-19 Virus in Public Places.	Mauryal, D. Gohil, M.K.... <u>MISRA, S.</u> ... Agarwal, A. K.	2020	5	231-287
572.	International Journal of Greenhouse Gas Control	Determination of dynamic elastic properties of dry, wet and partially CO2 saturated coals from laboratory scale ultrasonic response	Mukherjee M., Misra S., Raja E.	2020	96	103000
573.	Journal of Asian Earth Science	Fore-arc high and basin evolution offshore northern Sumatra using high-resolution marine geophysical datasets	Ghosal D., Mukti MM, Singh SC, Carton H., Deighton I	2021	216	104814
574.	Tectonophysics	Strike-slip seismicity at the Andaman-Sumatra Subduction Zone: Role of the fracture zones and age of the subducting lithosphere	Jacob J., Dymment J., Ghosal D., Dewangan P.	2021	811	228862
575.	Journal of Earth System Science	A reliable velocity estimation in a complex deep-water environment using downward continued long offset multi-channel seismic (MCS) data	Ghosal D., Singh SC	2021	130	
576.	Journal of Geophysics and Engineering	Estimating broad trend of acoustic impedance profile from observed seismic reflection data using first principles only	Mandal A., Ghosh S.K.	2020	17	475-483
577.	Journal of Natural Gas Science and Engineering	Detection of gas chimney and its linkage with deep-seated reservoir in poseidon, NW shelf, Australia from 3D seismic data using multi-attribute analysis and artificial	Dixit A., Mandal A.	2020	83	-

		neural network approach				
578.	Journal of Earth System Science	Delineation of shallow structures in Madawara igneous complex, Bundelkhand Craton, India using gravity–magnetic data: Implication to tectonic evolution and mineralization	Mandal A., Chandroth A., Basantaray A.K., Mishra U.	2020	129	-
579.	Geophysical Research Letters	The seasonality of global land and ocean mass and the changing water cycle	Chandanpurkar, H. A., J. T. Reager, J. S. Famiglietti, R. S. Nerem, D. P. Chambers, M-H. Lo, B. D. Hamlington and T. H. Syed	2021	48(7)	1-10
580.	Remote Sensing	Detecting and analyzing the evolution of subsidence due to coal fires in Jharia coalfield, India using Sentinel-1 SAR data	Riyas, M. J., T. H. Syed, H. Kumar and C. Kuenzer	2021	13(8)	1-22
581.	American Journal of Science	Paleo- to Mesoarchean crustal growth in the Karwar block, southern India: Constraints on TTG genesis and Archean tectonics	Ishwar-Kumar C., Sajeev K., Satish-Kumar M., Williams I.S., Wilde S.A., Hokada T., Windley B.F.	2021 (Accepted)		
582.	Tectonophysics	Magnetic fabrics in an apparently undeformed granite body near Main Boundary Thrust (MBT), Kumaun Lesser Himalaya, India	Agarwal, A., Srivastava, D.C., Shah, J., Mamtani, M.A.	2021	815	1517-1530
583.	International Journal of Earth Sciences	Asymmetric development of the Himalaya: quantitative evidence from strain analysis in Kimin-Ziro-Tamen area, Arunachal Lesser Himalaya, India	Joshi, G., Agarwal, A., Agarwal, K.K., Singh, P.V., Singh, S.	2021	110	2772-2779
Economic Sciences						
584.	Operations Research	Investment timing, agency and overconfidence	Datta B.	2020	48	286-290

	Letters					
585.	Journal of Development Economics	Can referral improve targeting? Evidence from an agricultural training experiment	Fafchamps M., Islam A., Malek M.A., Pakrashi D.	2020	144	-
586.	Economic Change and Restructuring	Revisiting the Wagner's law for Indian States using second generation panel cointegration	Nirola N., Sahu S.	2020	53	241-263
587.	European Journal of Political Economy	Destruction and settlement norms as determinants of conflict: An evolutionary perspective	Parashari G.S., Kumar V.	2020	63	-
588.	Journal of Applied Mathematics and Computing	On q-Newton's method for unconstrained multiobjective optimization problems	Mishra S.K., Panda G., Ansary M.A.T., Ram B.	2020	63	391-410
589.	Journal of Economic Interaction and Coordination	Epidemiology of inflation expectations and internet search: an analysis for India	Saakshi, Sahu S., Chattopadhyay S.	2020	15	649-671
590.	Optimization	On a practical notion of Geoffrion proper optimality in multicriteria optimization	Shukla P.K., Dutta J., Deb K., Kesarwani P.	2020	69	1513-1539
591.	Journal of Economic Behavior and Organization	Daily weather only has small effects on wellbeing in the US	Frijters P., Lalji C., Pakrashi D.	2020	176	747-762
592.	Energy Economics	On the intraday dynamics of oil price and exchange rate: What can we learn from China and India?	Ahmad W., Prakash R., Uddin G.S., Chahal R.J.K., Rahman M.L., Dutta A.	2020	91	-
593.	Journal of Development Studies	Labour Market Participation of Women in Rural Bangladesh: The Role of Microfinance	Islam A., Pakrashi D.	2020	56	1927-1946
594.	PLoS ONE	Using night time lights to find	Singhal A., Sahu S.,	2020	15	-

		regional inequality in India and its relationship with economic development	Chattopadhyay S., Mukherjee A., Bhanja S.N.			
595.	Resources Policy	When US sneezes, clichés spread: How do the commodity index funds react then?	Awasthi K., Ahmad W., Rahman A., Phani B.V.	2020	69	-
596.	Energy	A new forecasting model with wrapper-based feature selection approach using multi-objective optimization technique for chaotic crude oil time series	Karasu S., Altan A., Bekiros S., Ahmad W.	2020	212	-
597.	Economics Bulletin	Forecasting inflation for India with the Phillips Curve: Evidence from internet search data	Jha S., Sahu S.	2020	40	2372-2379
598.	Empirical Economics	Bayesian panel quantile regression for binary outcomes with correlated random effects: an application on crime recidivism in Canada	Bresson G., Lacroix G., Rahman M.A.	2021	60	227-259
599.	Social Science & Medicine	Impact of public health programs on maternal and child health services and health outcomes in India: A systematic review	S Abinash & Vellakkal S	2021	274	1-16
600.	International Journal of Biostatistics	Seemingly Unrelated Regression with Measurement Error: Estimation via MCMC and Mean Field Variational Bayes Approximation	Bresson G., Chaturvedi A., Rahman M.A., and Shalabh	2021	17(1)	75-97
601.	Education Policy Analysis Archives	Do Online Courses Provide an Equal Educational Value Compared to In-Person Classroom Teaching? Evidence from US Survey Data using Quantile Regression	Ojha, M. and Rahman, M.A.	2021	29(Article No. 85)	1-25
602.	Journal of Asian	Book review: The India Myanmar Thailand Trilateral Highway and	Mathur, S. K.	2021	3(1)	93-120

	Economic Integration	Its Possible Eastward Extension to Lao PDR, Cambodia and Vietnam : Challenges and Opportunities.				
603.	Prajnan ,Journal of Social and Management Sciences	The efficiency of Indian Banks: A Nonparametric DEA Approach with Panel Regression-Based Feedback	Dar, Ather Hassan, and Mathur, S.K.	2020-21	XLIX, No. 4	
604.	Journal of Economic Policy and Analysis	Health Insurance Coverage during Epidemics in India:A COVID -19 case of India using SIR Modelling Technique	Deepthi, A S and S.K.Mathur	2020	Volume 1,No 1	
605.	Prajnan, Journal of Social and Management Sciences	Regional Income Convergence and Spatial Spillovers in Madhya Pradesh	Bilal A Bhat and Mathur S.K	2020	XLIX, No 3	287-316
Electrical Engineering						
606.	IEEE Transactions on Communications	Large-System Analysis of AF Full-Duplex Massive MIMO Two-Way MRC/MRT Relaying	Dutta B., Budhiraja R., Seshadri N., Koilpillai R.D.	2020	68	2061-2077
607.	IEEE Transactions on Emerging Topics in Computational Intelligence	HJB-Equation-Based Optimal Learning Scheme for Neural Networks with Applications in Brain-Computer Interface	Reddy T.K., Arora V., Behera L.	2020	4	159-170
608.	IEEE Transactions on Dielectrics and Electrical Insulation	Investigation of the interface in nanodielectrics using electrostatic force microscopy	Sharma A., Basu S., Gupta N.	2020	27	433-441
609.	Optics Letters	Enhanced two-photon amplification in superconductor-	Strugo N., Balasubramanian K.,	2020	45	2062-2065

		semiconductor plasmonic waveguides	Panna D., Hayat A.			
610.	IEEE Sensors Journal	Modified Re-Iterated Kalman Filter for Handling Delayed and Lost Measurements in Power System State Estimation	Mohammed I., Geetha S.J., Shinde S.S., Rajawat K., Chakrabarti S.	2020	20	3946-3955
611.	Biomedical Signal Processing and Control	Automated emotion recognition based on higher order statistics and deep learning algorithm	Sharma R., Pachori R.B., Sircar P.	2020	58	-
612.	Biomedical Signal Processing and Control	Automated focal EEG signal detection based on third order cumulant function	Sharma R., Sircar P., Pachori R.B.	2020	58	-
613.	International Journal of RF and Microwave Computer-Aided Engineering	An efficient dual-band rectenna using symmetrical rectifying circuit and slotted monopole antenna array	Chandravanshi S., Akhtar M.J.	2020	30	-
614.	IEEE Communications Letters	Receivers for VBLAST FBMC-OQAM Systems	Singh P., Rani B.U., Budhiraja R., Vasudevan K.	2020	24	767-771
615.	Applied Optics	Gradient-based one-step fluorescence photoacoustic tomography	Pandey P.K., Gottam O., Naik N., Pradhan A.	2020	59	4357-4366
616.	IEEE Signal Processing Magazine	Optimally Compressed Nonparametric Online Learning: Tradeoffs between memory and consistency	Koppel A., Bedi A.S., Rajawat K., Sadler B.M.	2020	37	61-70
617.	IEEE Transactions on Industry Applications	Grid Integration of Small-Scale Photovoltaic Systems in Secondary Distribution Network - A Review	Panigrahi R., Mishra S.K., Srivastava S.C., Srivastava A.K., Schulz N.N.	2020	56	3178-3195
618.	IEEE	Simplified Approach for	Tiwari N.K., Singh	2020	69	2248-2257

	Transactions on Instrumentation and Measurement	Broadband RF Testing of Low Loss Magneto-Dielectric Samples	S.P., Jha A.K., Akhtar M.J.			
619.	Biomedical Signal Processing and Control	Seizures classification based on higher order statistics and deep neural network	Sharma R., Pachori R.B., Sircar P.	2020	59	-
620.	Journal of Intelligent Material Systems and Structures	Simultaneous energy harvesting and vibration attenuation in piezo-embedded negative stiffness metamaterial	Dwivedi A., Banerjee A., Bhattacharya B.	2020	31	1076-1090
621.	Telecommunication Systems	Improved double cycle and link pair methods for two-link failure protection	Athe P., Singh Y.N.	2020	74	83-93
622.	Robotica	Position-Based Visual Servoing of a Mobile Robot with an Automatic Extrinsic Calibration Scheme	Sharma R.S., Shukla S., Behera L., Subramanian V.K.	2020	38	831-844
623.	IET Generation, Transmission and Distribution	Efficient sensitivity based approach for AC transmission expansion planning	Yasasvi P.N., Mohapatra A., Srivastava S.C.	2020	14	2378-2388
624.	SN Applied Sciences	Balanced binary search tree multiclass decomposition method with possible non-outliers	Sevakula R.K., Verma N.K.	2020	2	-
625.	Engineering Research Express	Investigation the impact of the gate work-function and biases on the sensing metrics of TFET based biosensors	Dwivedi P., Singh R.	2020	2	-
626.	IEEE Communications Standards	Connecting the Unconnected: Toward Frugal 5G Network Architecture and Standardization	Khaturia M., Jha P., Karandikar A.	2020	4	64-71

	Magazine					
627.	IEEE Transactions on Communications	Finite Blocklength Non-Orthogonal Cooperative Communication Relying on SWIPT-Enabled Energy Harvesting Relays	Agarwal A., Jagannatham A.K., Hanzo L.	2020	68	3326-3341
628.	IEEE Transactions on Communications	Block-Based Spatial Modulation: Constellation Design and Low-Complexity Detection	Gadhai S., Budhiraja R.	2020	68	3505-3520
629.	IEEE Transactions on Dielectrics and Electrical Insulation	Detection of charge around a nanoparticle in a nanocomposite using electrostatic force microscopy	Sharma A., Basu S., Gupta N.	2020	27	866-872
630.	AEU - International Journal of Electronics and Communications	Design of reconfigurable multi-band low-noise amplifiers for 802.11ah/b/g and DCS-1800 applications	Bisht R., Akhtar M.J., Qureshi S.	2020	120	-
631.	International Journal of Microwave and Wireless Technologies	A corrugated G-shaped grounded ring slot antenna for wideband circular polarization	Saraswat K., Kumar T., Harish A.R.	2020	12	431-436
632.	IEEE Journal of Emerging and Selected Topics in Power Electronics	Control Approach to Enhance the Performance of a Current-Fed Switched Inverter	Gambhir A., Mishra S.K., Joshi A.	2020	8	1668-1685
633.	IEEE Transactions	Grid Integration of Small-Scale Photovoltaic Systems in	Panigrahi R., Mishra S.K., Srivastava S.C.,	2020	56	3178-3195

	on Industry Applications	Secondary Distribution Network - A Review	Srivastava A.K., Schulz N.N.			
634.	Thin Solid Films	Vanadium dioxide thin films synthesized using low thermal budget atmospheric oxidation	P A., Chauhan Y.S., Verma A.	2020	706	-
635.	IET Generation, Transmission and Distribution	Protection coordination for networked microgrids using single and dual setting overcurrent relays	Alam M.N., Gokaraju R., Chakrabarti S.	2020	14	2818-2828
636.	IET Communications	Uplink sum rate analysis of multi-user massive mimo-OFDM/oqam systems in ricean fading	Singh S., Singh P., Vasudevan K.	2020	14	-
637.	Computational and Mathematical Methods	A novel approach for signal decomposition along a wide class of orthogonal polynomial bases	Chakraborty S., Sircar P.	2020	2	-
638.	Energy	Combining forecasts of day-ahead solar power	Dewangan C.L., Singh S.N., Chakrabarti S.	2020	202	-
639.	Applied Optics	Dynamic noncontact surface profilometry using a fast eigenspace method in diffraction phase microscopy	Ajithaprasad S., Ramaiah J., Gannavarpu R.	2020	59	5796-5802
640.	Journal of the Optical Society of America A: Optics and Image Science, and Vision	One-step fluorescence photoacoustic tomography with the optical radiative transfer model	Pandey P.K., Bharadwaj J., Naik N., Aggrawal H.O.	2020	37	1175-1192
641.	IEEE Transactions on Electron Devices	Compact Modeling of Negative-Capacitance FDSOI FETs for Circuit Simulations	Dabhi C.K., Parihar S.S., Dasgupta A., Chauhan Y.S.	2020	67	2710-2716
642.	IEEE	Condition Assessment of Power	Mishra D., Baral A.,	2020	69	4404-4411

	Transactions on Instrumentation and Measurement	Transformer Insulation Using Short-Duration Time-Domain Dielectric Spectroscopy Measurement Data	Haque N., Chakravorti S.			
643.	IEEE Transactions on Power Systems	Online Estimation of System Inertia in a Power Network Utilizing Synchrophasor Measurements	Panda R.K., Mohapatra A., Srivastava S.C.	2020	35	3122-3132
644.	IEEE Transactions on Control Systems Technology	Dynamic Trajectory Generation and a Robust Controller to Intercept a Moving Ball in a Game Setting	Prakash R., Behera L., Mohan S., Jagannathan S.	2020	28	1418-1432
645.	Journal of Materials Science: Materials in Electronics	Structural, optical and enhanced multiferroic properties of La/Cr co-substituted BiFeO ₃ nanostructures	Nadeem M., Khan W., Khan S., Husain S., Singh F., Ansari A., Shukla D.K., Ahad A., Chakradhary V.K., Akhtar M.J.	2020	31	11177-11194
646.	Solar Energy	Spin and doctor-blade coated PEDOT:PSS back electrodes in inverted organic solar cells	Kumar S., Kim H., Kim D.-K., Iyer S.S.K.	2020	204	64-70
647.	IEEE Control Systems Letters	Containment Using Incomplete Agent Information over a Digraph	Sen A., Sahoo S.R., Kothari M.	2020	4	614-619
648.	IEEE Transactions on Industrial Informatics	Short-Term Forecasting-Based Network Reconfiguration for Unbalanced Distribution Systems with Distributed Generators	Gangwar P., Mallick A., Chakrabarti S., Singh S.N.	2020	16	4378-4389
649.	IEEE Transactions on Power Electronics	Interleaved Current-Fed Switched Inverter	Acharya S., Mishra S.K.	2020	35	7015-7030
650.	IEEE Control	Min-consensus for heterogeneous	Singh B., Sen A.,	2020	4	560-565

	Systems Letters	higher-order integrators under switching digraph	Sahoo S.R.			
651.	Optical Materials Express	Epitaxial superconducting tunnel diodes for light detection applications	Balasubramanian K., Wright J., Zohar O., Taitler B., Bouscher S., Xing H.G., Jena D., Hayat A.	2020	10	1724-1732
652.	Journal of Physics D: Applied Physics	Extraction of source resistance in thin film transistors using a single gated-probe outside the channel	Firoz N., Mazhari B.	2020	53	-
653.	IET Generation, Transmission and Distribution	Robust distribution system state estimation with hybrid measurements	Kumar C.S., Rajawat K., Chakrabarti S., Pal B.C.	2020	14	3250-3259
654.	IEEE Transactions on Communications	Sparse Doubly-Selective Channel Estimation Techniques for OSTBC MIMO-OFDM Systems: A Hierarchical Bayesian Kalman Filter Based Approach	Srivastava S., Kumar M.S., Mishra A., Chopra S., Jagannatham A.K., Hanzo L.	2020	68	4844-4858
655.	Electric Power Systems Research	Protection coordination scheme for directional overcurrent relays considering change in network topology and OLTC tap position	Alam M.N., Das B., Pant V.	2020	185	-
656.	IEEE Sensors Journal	Condition Monitoring of Machines Using Fused Features from EMD-Based Local Energy with DNN	Maurya S., Singh V., Verma N.K.	2020	20	8316-8327
657.	AEU - International Journal of Electronics and Communications	A dual band circularly polarized 45° rotated rectangular slot antenna with parasitic patch	Saraswat K., Harish A.R.	2020	123	-

658.	Physica Status Solidi (A) Applications and Materials Science	Carrier Transport in Graphene Field-Effect Transistors on Gated Polar Nitride Substrates	Balasubramanian K., Chandrasekar H., Raghavan S.	2020	217	-
659.	Proceedings of the Indian National Science Academy	Exploration of high symmetry β -P _x Si _y materials for 2D-electronics	Agnihotri S., Agarwal A., Bhowmick S., Chauhan Y.S.	2020	86	1225-1232
660.	IEEE Transactions on Industry Applications	Improved Selective Frequency Active Damping for Voltage Source Inverter with Output LC Filter	Tolani S., Gautam V., Sensarma P.	2020	56	5194-5201
661.	IEEE Transactions on Network and Service Management	Fault-Resilient Distributed Detection and Estimation over a SW-WSN Using LCMV Beamforming	Pandey O.J., Gautam V., Nguyen H.H., Shukla M.K., Hegde R.M.	2020	17	1758-1773
662.	IEEE Systems Journal	Optimal Charge/Discharge Scheduling of Battery Storage Interconnected with Residential PV System	Kapoor A., Sharma A.	2020	14	3825-3835
663.	IEEE Transactions on Circuits and Systems I: Regular Papers	Impact of Variability on Processor Performance in Negative Capacitance FinFET Technology	Amrouch H., Pahwa G., Gaidhane A.D., Dabhi C.K., Klemme F., Prakash O., Chauhan Y.S.	2020	67	3127-3137
664.	IEEE Transactions on Instrumentation and Measurement	Estimation of Broadband Complex Permeability Using SIW Cavity-Based Multimodal Approach	Tiwari N.K., Jha A.K., Singh S.P., Jaleel Akhtar M.	2020	69	6571-6581
665.	IEEE Transactions	Cooperative Network Model for Joint Mobile Sink Scheduling and	Redhu S., Hegde R.M.	2020	17	1853-1864

	on Network and Service Management	Dynamic Buffer Management Using Q-Learning				
666.	Sustainable Cities and Society	Different charging infrastructures along with smart charging strategies for electric vehicles	Sachan S., Deb S., Singh S.N.	2020	60	-
667.	Microwave and Optical Technology Letters	Interdigital capacitor loaded electric-LC resonator for dielectric characterization	Kapoor A., Varshney P.K., Akhtar M.J.	2020	62	2835-2840
668.	International Journal of Electrical Power and Energy Systems	A hybrid robust forecasting-aided state estimator considering bimodal Gaussian mixture measurement errors	Jin Z., Zhao J., Chakrabarti S., Ding L., Terzija V.	2020	120	-
669.	IEEE Transactions on Control of Network Systems	Communication-Delay-Dependent Rendezvous with Possible Negative Controller Gain in Cyclic Pursuit	De S., Sahoo S.R., Wahi P.	2020	7	1069-1079
670.	IET Microwaves, Antennas and Propagation	Broadband integrated rectenna using differential rectifier and hybrid coupler	Chandravanshi S., Katare K.K., Akhtar M.J.	2020	14	1384-1395
671.	IEEE Wireless Communications Letters	Joint-mapping-based variable active antenna spatial modulation	Gadhai S., Budhiraja R.	2020	9	1668-1672
672.	IEEE Communications Letters	WSEE Optimization Using Asynchronous ADMM for Massive MIMO Two-Way Relaying	Tentu V., Sharma E., Budhiraja R.	2020	24	2255-2259
673.	IEEE Transactions on Circuits and Systems	Simultaneous estimation of defocus and motion blurs from single image using equivalent gaussian representation	Kumar H., Gupta S., Venkatesh K.S.	2020	30	3571-3583

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674.	IEEE Transactions on Antennas and Propagation	Compact CRLH Leaky-Wave Antenna Using TE ₂₀ -Mode Substrate-Integrated Waveguide for Broad Space Radiation Coverage	Sarkar A., Sharma A., Biswas A., Akhtar M.J.	2020	68	7202-7207
675.	IEEE Transactions on Instrumentation and Measurement	Methodology of an Accurate Static I-V Characterization of Power Semiconductor Devices	Arya A., Kumar P., Anand S.	2020	69	7703-7715
676.	IEEE Photonics Technology Letters	Translationally Invariant Generation of Annular Beams Using Thin Films	Sharma N., Kumar G., Garg V., Mote R.G., Ramarao V., Gupta S.	2020	32	1273-1276
677.	Microelectronics Journal	Associative processing using negative capacitance FDSOI transistor for pattern recognition	Rajasekharan D., Kushwaha P., Chauhan Y.S.	2020	104	-
678.	IEEE Transactions on Industrial Informatics	A Benchmark Test System for Networked Microgrids	Alam M.N., Chakrabarti S., Liang X.	2020	16	6217-6230
679.	Soft Computing	Multi-sensor data fusion for accurate surface modeling	Singh M.K., Dutta A., Venkatesh K.S.	2020	24	14449-14462
680.	IEEE Transactions on Aerospace and Electronic Systems	Aerodynamic modeling of ATTAS aircraft using mamdani fuzzy inference network	Sharma A.K., Singh D., Singh V., Verma N.K.	2020	56	3566-3576
681.	IEEE Transactions on Industry Applications	Improved Selective Frequency Active Damping for Voltage Source Inverter with Output LC Filter	Tolani S., Gautam V., Sensarma P.	2020	56	5194-5201
682.	IET	Dual-band polarisation	Saraswat K., Harish	2020	14	1786-1790

	Microwaves, Antennas and Propagation	reconfigurable grounded fractal slot antenna	A.R.			
683.	IET Control Theory and Applications	Finite-time super twisting sliding mode controller based on higher-order sliding mode observer for real-time trajectory tracking of a quadrotor	Tripathi V.K., Kamath A.K., Behera L., Verma N.K., Nahavandi S.	2020	14	2359-2371
684.	IEEE Transactions on Communications	Second-Order Statistics-Based Semi-Blind Techniques for Channel Estimation in Millimeter-Wave MIMO Analog and Hybrid Beamforming	Singh P., Srivastava S., Jagannatham A.K., Hanzo L.	2020	68	6886-6901
685.	Journal of Renewable and Sustainable Energy	Forecasting based energy management of flywheel energy storage system connected to a wind power plant	Aasim, Singh S.N., Mohapatra A.	2020	12	-
686.	IEEE Communications Letters	Time Synchronized Node Localization Using Optimal H-Node Allocation in a Small World WSN	Pandey O.J., Gautam V., Jha S., Shukla M.K., Hegde R.M.	2020	24	2579-2583
687.	IEEE Transactions on Power Systems	A Clustering-Based Approach for Estimation of Low Frequency Oscillations in Power Systems	Pande P.W., Chakrabarti S., Srivastava S.C., Sarkar S.	2020	35	4666-4677
688.	IEEE Transactions on Industry Applications	Improved Analytical Method to Determine Flux-Linkage Characteristics of a Switched Reluctance Machine	Banerjee R., Sensarma P.	2020	56	6314-6323
689.	IEEE Transactions on Electron Devices	Modeling of Current Mismatch and 1/f Noise for Halo-Implanted Drain-Extended MOSFETs	Gupta C., Dey S., Goel R., Hu C., Chauhan Y.S.	2020	67	4794-4801
690.	IEEE Transactions	Analytical Modeling of Short-Channel Effects in MFIS	Pandey N., Chauhan Y.S.	2020	67	4757-4764

	on Electron Devices	Negative-Capacitance FET including Quantum Confinement Effects				
691.	IEEE Sensors Journal	Convergence Rate Analysis of Periodic Gossip Algorithms for One-Dimensional Lattice WSNs	Kouachi S., Dhuli S., Singh Y.N.	2020	20	13150-13160
692.	Advanced Materials Technologies	Organic Photovoltaic Modules Built on Paper Substrates	Jayaraman E., Iyer S.S.K.	2020	5	-
693.	Multimedia Tools and Applications	CSIDNet: Compact single image dehazing network for outdoor scene enhancement	Sharma T., Agrawal I., Verma N.K.	2020	79	30769-30784
694.	IEEE Micro	Power Side-Channel Attacks in Negative Capacitance Transistor	Knechtel J., Patnaik S., Nabeel M., Ashraf M., Chauhan Y.S., Henkel J., Sinanoglu O., Amrouch H.	2020	40	74-84
695.	Optics and Lasers in Engineering	Demodulating interferograms with non-uniform amplitude variations for precision non-contact optical profilometry	Satya Vithin A.V., Show I., Ajithaprasad S., Gannavarpu R.	2020	134	-
696.	International Journal of Electrical Power and Energy Systems	An efficient holomorphic embedded based approach for available transfer capability evaluation	Keshewani S., Mohapatra A., Srivastava S.C.	2020	122	-
697.	Silicon	Temperature Dependent Performance Evaluation and Linearity Analysis of Double Gate-all-around (DGAA) MOSFET: an Advance Multigate Structure	Pratap Y., Verma J.H.K.	2020	12	2619-2626
698.	Journal of Electromagneti	Novel substrate integrated waveguide cavity-based unified	Tiwari N.K., Singh S.P., Akhtar M.J.	2020	34	2499-2513

	c Waves and Applications	multiband permittivity and permeability estimation approach				
699.	Journal of Applied Physics	Improvement of hole mobility in PTB7 polymer film with a low temperature electric field treatment	Bagui A., Iyer S.S.K.	2020	128	-
700.	IEEE Communications Letters	Detection probability in a molecular communication via diffusion system with multiple fully-absorbing receivers	Sabu N.V., Gupta A.K.	2020	24	2824-2828
701.	IEEE Transactions on Neural Networks and Learning Systems	An Online Event-Triggered Near-Optimal Controller for Nash Solution in Interconnected System	Dhar N.K., Verma N.K., Behera L.	2020	31	5534-5548
702.	IEEE Transactions on Vehicular Technology	Strategy-Proof Spectrum Allocation among Multiple Operators in Wireless Networks	Yadav I., Kulkarni A.A., Karandikar A.	2020	69	15964-15977
703.	Sadhana - Academy Proceedings in Engineering Sciences	A novel non-customary method of image compression based on image spectrum	Kumar H., Gupta S., Venkatesh K.S.	2020	45	-
704.	IEEE Sensors Journal	Intelligent Condition-Based Monitoring of Rotary Machines with Few Samples	Dixit S., Verma N.K.	2020	20	14337-14346
705.	Scientific Reports	Design of an ELC resonator-based reusable RF microfluidic sensor for blood glucose estimation	Govind G., Akhtar M.J.	2020	10	-
706.	Optical Fiber Technology	Semi-analytical approach for calculation of intercore crosstalk in multicore fibers	Joshi A., Sharma I., Krishnamurthy P.K.	2020	60	-
707.	IEEE Transactions	3-D Diffusive Molecular Communication with Two Fully-	Sabu N.V., Varshney N., Gupta A.K.	2020	6	244-249

	on Molecular, Biological, and Multi-Scale Communications	Absorbing Receivers: Hitting Probability and Performance Analysis				
708.	Optical Materials	High infrared reflectance modulation in VO ₂ films synthesized on glass and ITO coated glass substrates using atmospheric oxidation of vanadium	P A., Chauhan Y.S., Verma A.	2020	110	-
709.	IEEE Transactions on Power Electronics	DC-DC Converter Synthesis: An Inverse Problem	Panigrahi R., Mishra S.K., Joshi A., Ngo K.D.T.	2020	35	12633-12638
710.	International Journal of Wireless Information Networks	Efficient Hybrid Linear Massive MIMO Detector Using Gauss–Seidel And Successive Over-Relaxation	Albreem M.A.M., Vasudevan K.	2020	27	551-557
711.	Scientific Reports	Ensuring the spread of referral marketing campaigns: a quantitative treatment	Ghosh S., Gaurav K., Bhattacharya S., Singh Y.N.	2020	10	-
712.	Materials Today Communications	Correlation between EMI shielding and reflection loss mechanism for carbon nanofiber/epoxy nanocomposite	Chakradhary V.K., Juneja S., Jaleel Akhtar M.	2020	25	-
713.	IEEE Transactions on Industry Applications	Improved Analytical Method to Determine Flux-Linkage Characteristics of a Switched Reluctance Machine	Banerjee R., Sensarma P.	2020	56	6314-6323
714.	IEEE Systems Journal	Finite-Time Robust Admissible Consensus Control of Multirobot System under Dynamic Events	Nandanwar A., Dhar N.K., Malyshev D., Rybak L., Behera L.	2021	15	780-790
715.	IEEE	Kth Distance Distributions of n-	Pandey K., Gupta	2021	25	769-773

	Communications Letters	Dimensional Matérn Cluster Process	A.K.			
716.	IEEE Transactions on Communications	Energy-Efficient Spatially-Correlated Hardware Impaired Massive MIMO FD Relaying	Amudala D.N., Sharma E., Budhiraja R.	2021	69	2028-2046
717.	Peer-to-Peer Networking and Applications	Trust estimation in peer-to-peer network using BLUE	Gupta R., Singh Y.N., Goswami A.	2021	14	888-897
718.	IEEE Transactions on Network and Service Management	Adaptive Network Latency Prediction from Noisy Measurements	Tripathi R., Rajawat K.	2021	18	807-821
719.	IET Generation, Transmission and Distribution	Selection of capacitance for stable operation of low power DC system with constant power loads	Islam S., De S., Anand S., Sahoo S.R.	2021	15	809-826
720.	IEEE Transactions on Energy Conversion	An ANOVA-Based Fault Diagnosis Approach for Variable Frequency Drive-Fed Induction Motors	Shabbir M.N.S.K., Liang X., Chakrabarti S.	2021	36	500-512
721.	IEEE Systems Journal	Multivariable Event-Triggered Generalized Super-Twisting Controller for Safe Navigation of Nonholonomic Mobile Robot	Singh P., Agrawal P., Nandanwar A., Behera L., Verma N.K., Nahavandi S., Jamshidi M.	2021	15	454-465
722.	IEEE Systems Journal	Joint User and Antenna Selection in Massive-MIMO Systems with QoS-Constraints	Akhtar J., Rajawat K., Gupta V., Chaturvedi A.K.	2021	15	497-508
723.	Applied Optics	Demodulation of noisy interferograms with rapid phase variations and amplitude	Satya Vithin A.V., Vishnoi A., Gannavarpu R.	2021	60	1937-1942

		fluctuations using a surrogate principle-based optimization method				
724.	Computer Networks	Dynamic cache management in content delivery networks	Thomdapu S.T., Katiyar P., Rajawat K.	2021	187	-
725.	Pattern Recognition	Probabilistic framework for solving visual dialog	Patro B.N., Anupriy, Namboodiri V.P.	2021	110	-
726.	Electric Power Systems Research	A Real-Time Approach for Detection and Correction of False Data in PMU Measurements	Khare G., Mohapatra A., Singh S.N.	2021	191	-
727.	IEEE Antennas and Wireless Propagation Letters	A polarization-insensitive band-notched absorber for radar cross section reduction	Sharma A., Ghosh S., Srivastava K.V.	2021	20	259-263
728.	IEEE Transactions on Electron Devices	Assessing Negative-Capacitance Drain-Extended Technology for High-Voltage Switching and Analog Applications	Pahwa G., Gaidhane A.D., Agarwal A., Chauhan Y.S.	2021	68	679-687
729.	IEEE Sensors Journal	Crossing the Nernst Limit (59 mV/pH) of Sensitivity through Tunneling Transistor-Based Biosensor	Dwivedi P., Singh R., Chauhan Y.S.	2021	21	3233-3240
730.	IEEE Sensors Journal	A New Simulation Approach of Transient Response to Enhance the Selectivity and Sensitivity in Tunneling Field Effect Transistor-Based Biosensor	Dwivedi P., Singh R., Sengar B.S., Kumar A., Garg V.	2021	21	3201-3209
731.	IET Renewable Power Generation	ARI and ARID control of virtual synchronous generator for frequency response improvement	Rathore B., Chakrabarti S., Srivastava L.	2021	15	664-675
732.	IEEE Communications Letters	On DNA Codes with Multiple Constraints	Benerjee K.G., Banerjee A.	2021	25	365-368

733.	IEEE Sensors Journal	Emotion Sensing from Head Motion Capture	Samanta A., Guha T.	2021	21	5035-5043
734.	IEEE Transactions on Systems, Man, and Cybernetics: Systems	Skill Learning from Human Demonstrations Using Dynamical Regressive Models for Multitask Applications	Dutta S., Behera L., Nahavandi S.	2021	51	659-672
735.	IEEE Transactions on Cybernetics	Circumnavigation on Multiple Circles around a Nonstationary Target with Desired Angular Spacing	Sen A., Sahoo S.R., Kothari M.	2021	51	222-232
736.	Microwave and Optical Technology Letters	A broadband multilayer circuit analog absorber using resistive ink	Singh G., Sharma A., Ghosh S.	2021	63	322-328
737.	IEEE Transactions on Wireless Communications	Distributed Parameter Detection in Massive MIMO Wireless Sensor Networks Relying on Imperfect CSI	Chawla A., Sarode A.S., Jagannatham A.K., Hanzo L.	2021	20	506-519
738.	IEEE Transactions on Industrial Informatics	Tracking Control of Mobile Robots in Formation in the Presence of Disturbances	Sharma R.S., Mondal A., Behera L.	2021	17	110-123
739.	Progress in Nuclear Energy	Low-level radioactive waste management using microwave technology	Bhadouria V.S., Akhtar M.J., Munshi P.	2021	131	-
740.	Solar Energy	Role of DIO vis-à-vis microstructural kinetics during thermal annealing on the performance of PTB7:PC71BM organic solar cells	Gupta S.K., Yadav J., Chaturvedi N., Ranjan R., Pali L.S., Nalwa K.S., Garg A.	2021	213	27-35
741.	IEEE Transactions on Automatic	A Rendezvous Strategy with R2Reachability for Kinematic Agents	De S., Sahoo S.R., Wahi P.	2021	66	369-374

	Control					
742.	IEEE Transactions on Sustainable Energy	Coordinated control of OLTC and energy storage for voltage regulation in distribution network with high PV penetration	Tewari T., Mohapatra A., Anand S.	2021	12	262-272
743.	IEEE Transactions on Vehicular Technology	Fast Block LMS Based Estimation of Angularly Sparse Channels for Single-Carrier Wideband Millimeter Wave Hybrid MIMO Systems	Srivastava S., Sharma P., Dwivedi S., Jagannatham A.K., Hanzo L.	2021	70	666-681
744.	IEEE Transactions on Communications	Bayesian Learning-Based Doubly-Selective Sparse Channel Estimation for Millimeter Wave Hybrid MIMO-FBMC-OQAM Systems	Srivastava S., Singh P., Jagannatham A.K., Karandikar A., Hanzo L.	2021	69	529-543
745.	IEEE Transactions on Communications	Q-GADMM: Quantized Group ADMM for Communication Efficient Decentralized Machine Learning	Elgabli A., Park J., Bedi A.S., Issaid C.B., Bennis M., Aggarwal V.	2021	69	164-181
746.	Neurocomputing	Revisiting paraphrase question generator using pairwise discriminator	Patro B.N., Chauhan D., Kurmi V.K., Namboodiri V.P.	2021	420	149-161
747.	IEEE Sensors Journal	Asynchronous Hierarchical Forecasting-Aided State Estimator with Sub-Area Data Validation for Power Systems	Geetha S.J., Chakrabarti S., Rajawat K.	2021	21	2124-2133
748.	IEEE Sensors Journal	Substrate Integrated Waveguide Derived Novel Two-Way Rotation Sensor	Varshney P.K., Akhtar M.J.	2021	21	1519-1526
749.	IEEE Transactions on Circuits and Systems II: Express Briefs	Effects of AC Response Imperfections in True-Time-Delay Lines	I. Mondal, N. Krishnapura	2021	68	1173 - 1177

750.	Material Today: Proceeding	Study to improve the efficiency of c-Si material in photovoltaic power plant	Sumit Tiwari, Prabhakar Tiwari and SN Singh	2020	25 (4)	691 - 694
751.	Recent Advances in Electrical & Electronic Engineering	Performance Analysis of Sensor-based and Sensorless Methods for PMSM Drive	Shweta Singh, A.N. Tiwari, and SN Singh	2020	13 (3)	304 - 315
752.	The Electricity Journal	Congestion management approaches in restructured power system: Key issues and challenges	A Narain, SK Srivastava and SN Singh	2020	33 (3)	
753.	Electrical India	Moving towards Better Indian Electricity Grid Discipline (Part-I)	Aniket Raj, Prabhakar Tiwari and SN Singh	2020	60 (8)	24 - 27
754.	Electrical India	Moving towards Better Indian Electricity Grid Discipline (Part-II)	Aniket Raj, Prabhakar Tiwari and SN Singh	2020	60 (9)	24 - 25
755.	Electrical India	Moving towards Better Indian Electricity Grid Discipline (Part-III)	Aniket Raj, Prabhakar Tiwari and SN Singh	2020	60 (10)	38 - 41
756.	Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering)	Performance Analysis of PMSG based Wind Energy Conversion System with Different LVRT Enhancement Methods	Puneet K Srivastava, AN Tiwari, SN Singh	2020	13 (4)	470 - 485
757.	Recent Advances in Electrical & Electronic Engineering (Formerly	Impacts of Wind Energy Integration to the Utility Grid and Grid Codes: A Review	Puneet K Srivastava, AN Tiwari, SN Singh	2020	13 (4)	446 - 469

	Recent Patents on Electrical & Electronic Engineering)					
758.	Recent Advances in Electrical & Electronic Engineering	Speed and Position Estimation for Sensorless Control of PMSM: A Critical Review	Shweta Singh, A.N. Tiwari, and S.N. Singh	2020	13 (6)	804 - 823
759.	IET Energy Conversion and Economics	Design of Internal Dynamics Based MMC Controller for HVDC Transmission	Ankit yadav, SN Singh and SP Das	2020	1 (2)	93 - 103
760.	IET Energy Conversion and Economics	Energy Management and Economic Analysis for Multiple Energy Storage System in Solar-PV/ PEMFC Hybrid Power System	Vipin Das, Asheesh K Singh, P Karuppanan, Pradeep Kumar, SN Singh, and VG Agelidis	2020	1 (2)	124 - 140
761.	IET Energy Conversion and Economics	Analysis of Ill-conditioning of Hybrid State Estimators in the Presence of PMU Measurements	Sanjeev K. Mallik, SN Singh and Saikat Chakrabarti	2021	2 (1)	35 - 44
762.	IEEE Transactions on Antennas and Propagation	Frequency Shifted Reflection of Electromagnetic Waves Using a Time-modulated Active Tunable Frequency Selective Surface	Mondeep Saikia, Kumar Vaibhav Srivastava, and S. Anantha Ramakrishnan	2020	68	2937-2944
763.	Microwave and Optical Technology Letters	An Optically Transparent and Flexible Microwave Absorber for X and Ku Bands Application	Yakeen Tayde, Kajal Chaudhary, Gaganpreet Singh, Ayushi Dhumal, Mondeep Saikia, Kumar Vaibhav Srivastava, J. Ramkumar, and S. Anantha Ramakrishnan	2020	62	1850-1859

764.	IEEE Transactions on Components, Packaging and Manufacturing Technology	Optically Transparent Protective Coating for ITO Coated PET based Microwave Metamaterial Absorbers	Kajal Chaudhary, Gaganpreet Singh, J. Ramkumar, S. Anantha Ramakrishnan, Kumar Vaibhav Srivastava, and Praveen C. Ramamurthy	2020	10	378-388
765.	Journal of Electromagnetic Waves and Applications	Analysis and Realization of a Wideband Mantle Cloak with Improved Cloaking Performance	Mahesh Singh Bisht, Vadher Pratik Vinubhai, and Kumar Vaibhav Srivastava	2020	34	1386-1399
766.	Progress in Electromagnetic Research (PIER)	Scattering and Coupling Reduction of Dipole Antenna using Gradient Index Metamaterial based Cloak	Mahesh Singh Bisht, and Kumar Vaibhav Srivastava	2020	90	185-193
767.	Microwave and Optical Technology Letters	A Compact Triple Band Circularly Polarized Planar Antenna for Wireless Application	Kahani Kumari, Rahul Kumar Jaiswal and Kumar Vaibhav Srivastava	2020	62	2611-2617
768.	Microwave and Optical Technology Letters	Propagation of Wave in a cylindrical waveguide filled with Hyperbolic Negative Index Medium	Abhinav Bhardwaj, Kumar Vaibhav Srivastava and S. Anantha Ramakrishna	2020	62	3385-3390
769.	Microwave and Optical Technology Letters	A Polarization-Insensitive Broadband Absorber with In-Band Transmission Response	Aditi Sharma, Modeep Saikia, Sudha Malik, Saptarshi Ghosh, and Kumar Vaibhav Srivastava	2020	62	3668-3676
770.	IEEE Antennas and Wireless Propagation	A Dual-band Tunable Frequency Selective Surface with Independent Wideband Tuning	Saptarshi Ghosh, and Kumar Vaibhav Srivastava	2020	19	1808 – 1812

	Letters					
771.	IEEE Transactions on Antennas and Propagation	Controlling Electromagnetic Scattering of a Cylindrical Obstacle Using Concentric Array of Current Sources	Mahesh Singh Bisht, and Kumar Vaibhav Srivastava	2020	68	8044 - 8052
772.	Microwave and Optical Technology Letters	Polarization Insensitive Multilayered Broadband Absorber for L and S Bands of the Radar Spectrum	Ayushi Dhumal, Abhinav Bhardwaj and Kumar Vaibhav Srivastava	2021	63	1229-1235
773.	IEEE Antennas and Wireless Propagation Letters	A Polarization-Insensitive Band-Notched Absorber for Radar Cross Section Reduction	Aditi Sharma, S. Ghosh, and K. V. Srivastava	2021	20	259 – 263
774.	IEEE Sensors Journal	Highly sensitive permittivity sensor using an Inhomogeneous Metamaterial Cylindrical Waveguide	Abhinav Bhardwaj, Dheeraj Pratap, Kumar Vaibhav Srivastava and S. Anantha Ramakrishna	2021	21	9120 – 9127
775.	Journal of Electromagnetic Waves and Applications	Improving Performance of Mantle cloak for Electrically Large PEC Cylinders by Reducing Higher-Order Scattering Coefficients	V. Pratik, M. S. Bisht, and K. V. Srivastava	2021	35	1176 – 1191
776.	Microwave and Optical Technology Letters	Three-Port Circularly Polarized MIMO Antenna for WLAN Application with Pattern and Polarization Diversity	Rahul Kumar Jaiswal, Kahani Kumari, Chow-Yen-Desmond Sim and Kumar Vaibhav Srivastava	2021	63	1927-1934
777.	IEEE Journal of Electron Devices Society	Impact of Interface Traps on Negative Capacitance Transistor: Device and Circuit Reliability	Prakash O., Pahwa G., Chauhan Y. S., Amrouch H.	2020	8	1193-1201
778.	IEEE Journal	Compact Modeling of Multi-	Nandan K., Yadav	2020	8	1177-1183

	of Electron Devices Society	layered MoS2 FETs including Negative Capacitance Effect	C., Rastogi P., T.-Lopez A., Sanchez A. M., Marin E. G., F. G. Ruiz, Bhowmick S., Chauhan Y. S.			
779.	IEEE Journal of Electron Devices Society	Compact Modeling of Surface Potential, Drain Current and Terminal Charges in Negative Capacitance Nanosheet FET including Quasi-Ballistic Transport	Gaidhane A. D., Pahwa G., Dasgupta A., Verma A., S. Chauhan Y.	2020	8	1168-1176
780.	Applied Physics Letters	Subthermionic Negative Capacitance Ion Sensitive Field-Effect Transistor	Bellando F., Dabhi C. K., Saeidi A., Gastaldi C., Chauhan Y. S., Ionescu A. M.,	2020	116	-
781.	IEEE Access	A Flexible Dual-Band Rectenna With Full Azimuth Coverage	S. Chandravanshi, K. K. Katore and M. J. Akhtar	2021	9	27476-27484
782.	Journal of Magnetism and Magnetic Materials	Absorption properties of CNF mixed cobalt nickel ferrite nanocomposite for radar and stealth applications	Vishal Chakradhary and M. J. Akhtar	2021	525	167592 (1-10)
783.	ACES Industrial & Engineering Chemistry Research	Synthesis of lightweight nanocomposite based on polyaniline 3D hollow spheres integrated milled carbon fibers for efficient X band microwave absorption	S. K. Singh, M. J. Akhtar, and K K Kar	2020	59	9076-9084
784.	IET Cyber Systems and Robotics,	Fuzzy Inferencing-based Path planning with a cyber-physical framework and Adaptive Second order SMC for routing and mobility control in a robotic network	Nandanwar A, Nair R R, Behera L	2020	2	149 – 160
785.	IEEE	Dynamic Online Learning via	Deepak Kalhan, A.	2021	69	932-947

	Transactions on Signal Processing,	Frank-Wolfe Algorithm	S. Bedi, A. Koppel, K. Rajawat, H. Hassani, Abhishek K. Gupta, and A. Banerjee,			
Humanities and Social Sciences						
786.	Frontiers in Psychology (Emotion Science)	Exploring the thermal signature of guilt, shame, and remorse	Bhushan, B., Basu, S., Panigrahi, P.K. & Dutta, S	2020	11	28-74
787.	University of Mumbai.	Covid-19 and prohibiting spitting in public: The challenge psychologists should accept. Commentary, Sambhasan	Bhushan, B.	2020	1:3	118-122
788.	Springer	Revisiting guilt, shame, and remorse. Psychological Studies	Bhushan, B., Basu, S., & Dutta, S	2020	65	247-260
789.	Mental Health, Religion & Culture	The right parietal lobe, sense of self, and empathy: Cross-cultural, ethnic, and religious considerations	Cohen, D., Bhushan, B., Hanks, R., Yoon, D.P., Johnstone, B., & Hunt, I	2020	23:5	375-397
790.	The Reasoner	Resilient Creative Thought Processes: Reconciling Imagination and Reasoning	Saraswat, Lalit	2021	3	15
791.	The Qualitative Report	Exploring Self-Silencing in Workplace Relationships: A Qualitative Study of Female Software Engineers	Maji, S. & Dixit, S	2020	25(6)	1505-1525
792.	The Qualitative Report	Gendered Processes and Women's Stunted Career Growth: An Exploratory Study of Female Software Engineers	Maji, S. & Dixit, S	2020	25(8)	3067-3084

793.	International Journal of Health Planning and Management	A study on the motivation of Indian patients to consult complementary and alternative medicine practitioners to treat coronary artery disease	Singh, A. & Dixit, S	2021	36(2)	423-441
794.	Psychological Reports	Increasing Choices or Decreasing Hope? Explaining the Rising Prevalence of Depression from a Decision-Making Perspective	Basu, S., & Dixit, S.	2021		
795.	TESOL Journal (Wiley Online Library)	Developing conceptual metaphor–based tasks in the teaching and learning of idiomatic expressions	Upadhaya, B. & Sudharshana, N. P.	2020		
796.	The International Journal of Arts Theory and History	Beyond Conventions: Underlying the Presence of Trash Sensibility as an Inherent Discourse in the Material Evolution of Twentieth Century Indian Art	Tanvi Jain and Shatarupa Thakurta Roy	2021	16(1)	1-19
797.	South Asian Diaspora Taylor and Francis Group	Assimilation and Symbolic Ethnicity through the Class-Ethnicity Nexus: A Study of Second-Generation Indian Immigrants in the USA	Binay Kumar Pattnaik & A Mukherjee	2021		
798.	Sociological Bulletin	Assimilation, Heterolocalism and Ethnic Capital: The Case of an Immigrant Indian Community in America	Binay Kumar Pattnaik & A Mukherjee	2021	70(I)	24-41
799.	EUROPEAN ACADEMIC RESEARCH	The Complexity of Historical Museums: An Experimental Zone in the Context of Colonial, Post-colonial and Modern India	Mondal, P., & R. Bhowmik	2021	VIII (12)	7192-7216
800.	Current Sociology	Staying Away, Staying Alive: Exploring Risk and Stigma of COVID-19 in the context of beliefs, actors and hierarchies in	Joshi, B., & Swarnakar, P	2021		

		India				
801.	Philosophical Readings	Is Personal Identity, Moral Identity?	Nath, Rajakishore and Vineet Sahu	2020	XII (3)	364-369
Industrial and Management Engineering						
802.	International Journal of Production Economics	Identification and ranking of the risk factors involved in PLM implementation	Singh S., Chandra Misra S., Kumar S.	2020	222	-
803.	Energies	Solar photovoltaic panels with finned phase change material heat sinks	Singh P., Khanna S., Newar S., Sharma V., Reddy K.S., Mallick T.K., Becerra V., Radulovic J., Hutchinson D., Khusainov R.	2020	13	-
804.	Energy Strategy Reviews	Flexibility requirement for large-scale renewable energy integration in Indian power system: Technology, policy and modeling options	Das P., Mathuria P., Bhakar R., Mathur J., Kanudia A., Singh A.	2020	29	-
805.	Journal of Cleaner Production	Incentivizing green entrepreneurship: A proposed policy prescription (a study of entrepreneurial insights from an emerging economy perspective)	Potluri S., Phani B.V.	2020	259	-
806.	IIMB Management Review	Time to payoff: Efficacy of analyst recommendations in the Indian stock market	Chatterjee D., Kumar S., Chatterjee P.	2020	32	153-165
807.	International Journal of Remote Sensing	A framework for automatic classification of mobile LiDAR data using multiple regions and 3D CNN architecture	Kumar B., Pandey G., Lohani B., Misra S.C.	2020	41	5588-5608
808.	Journal of Industrial and Production	Quantity flexible contract under information asymmetry	Asfaw D., Venkataraman S.V.	2020	37	205-214

	Engineering					
809.	Behaviour and Information Technology	A study on the role of trust factor in adopting personalised medicine	Misra S.C., Bisui S., Singh A.	2020	39	771-787
810.	Annals of Operations Research	Preface: sustainable operations in manufacturing enterprise	Singh S.P., Song M., Sharma R.R.K., Fisher R., Amit R.K., Saen R.F.	2020	290	-
811.	Safety Science	A Dominance based Rough Set analysis for investigating employee perception of safety at workplace and safety compliance	Singh A., Misra S.C.	2020	127	-
812.	Global Business Review	Impact of Venture Capital Investment on Firm Performance: An Indian Evidence	Katti S., Raithatha M.	2020	21	1011-1024
813.	Resources Policy	When US sneezes, clichés spread: How do the commodity index funds react then?	Awasthi K., Ahmad W., Rahman A., Phani B.V.	2020	69	-
814.	Annals of Operations Research	Buyback contract under asymmetric information about retailer's loss aversion nature	Venkataraman S.V., Asfaw D.	2020	295	385-409
815.	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	A Novel Salp Swarm Algorithm for Expansion Planning with Security Constraints	Verma S., Shiva C.K.	2020	44	1335-1344
816.	Tourism Management Perspectives	Vulnerability and Resilience of the Tourism Sector in India: Effects of Natural Disasters and Internal Conflict	Barbhuiya, M.R., Chatterjee, D.	2020	33	
817.	Journal of Academy of Hospital Administration	Relating Organization Structure of Hospitals To Its Cost Leader (CL) And Differentiation (DIFF) Strategy: Case Study of Two Hospitals in India	Sheela R Sharma and RRK Sharma	2020	31(2), 32(1)	42-48

818.	Journal of Destination Marketing and Management	Strategies for developing sustainable tourism business in the Indian Himalayan Region: Insights from Uttarakhand, the Northern Himalayan State of India	Chandra P., Kumar J.	2021	19	-
819.	Global Journal of Flexible Systems Management	An Empirical Analysis of Impact of Organizational Strategies on Critical Success Factors of Business Process Reengineering	Vishvakarma N.K., Sharma R.R.K., Kumar A.	2021	22	55-73
820.	Journal of Control, Automation and Electrical Systems	Renewable Energy-Based Load Frequency Stabilization of Interconnected Power Systems Using Quasi-Oppositional Dragonfly Algorithm	Vedik B., Kumar R., Deshmukh R., Verma S., Shiva C.K.	2021	32	227-243
821.	Safety Science	Safety performance & evaluation framework in Indian construction industry	Singh A., Misra S.C.	2021	134	-
822.	Energy Policy	Ancillary services in the Indian power sector – A look at recent developments and prospects	Kumar T.B., Singh A.	2021	149	-
823.	PLoS ONE	A complex systems perspective of news recommender systems: Guiding emergent outcomes with feedback models	Prawesh S., Padmanabhan B.	2021	16	-
824.	Applied Thermal Engineering	Three dimensional analysis of dye-sensitized, perovskite and monocrystalline silicon solar photovoltaic cells under non uniform solar flux	Singh P., Khanna S., Mudgal V., Newar S., Sharma V., Sundaram S., Reddy K.S., Mallick T.K., Becerra V., Hutchinson D., Radulovic J., Khusainov R.	2021	182	-
825.	Energy	Power sector reforms and technology adoption in the Indian	Bhatt B., Singh A.	2021	215	-

		electricity distribution sector				
826.	International Journal of Information Management	Industry Norms as Predictors of IT Outsourcing Behaviors	Shankar Prawesh, Kaushal Chari, and Manish Agrawal	2021	56	1-10
827.	Benchmarking	Does capacity utilization influence financial performance? A study of Indian public bus transport companies.	Shivam Kushwaha, Shankar Prawesh, and Aanand Venkatesh	2021	ahead-of-print	-
Materials Science and Engineering						
828.	Journal of Physical Chemistry C	Designing High Ionic Conducting NASICON-type Na ₃ Zr ₂ Si ₂ PO ₁₂ Solid-Electrolytes for Na-Ion Batteries	Pal S.K., Saha R., Kumar G.V., Omar S.	2020	124	9161-9169
829.	Materials Science and Engineering A	A critical evaluation of microstructure-texture-mechanical behavior heterogeneity in high pressure torsion processed CoCuFeMnNi high entropy alloy	Sonkusare R., Biswas K., Al-Hamdany N., Brokmeier H.G., Kalsar R., Schell N., Gurao N.P.	2020	782	-
830.	International Journal of Hydrogen Energy	Thermodynamic and microstructural basis for the fast hydrogenation kinetics in Mg–Mg ₂ Ni-carbon hybrids	Gupta A., Faisal M., Shervani S., Balani K., Subramaniam A.	2020	45	11632-11640
831.	Journal of Thermal Spray Technology	Amorphous/Nanocrystalline Composite Coatings Using Blast Furnace Pig Iron Composition by Atmospheric Plasma Spray and Their Electrochemical Response	Rai P.K., Naidu D., Satapathy B., Sarkar K., Pathak A.S., Bijalwan P., Dutta M., Banerjee A., Mondal K.	2020	29	843-856
832.	Diamond and Related Materials	Effect of addition of multiwalled carbon nanotube/graphite nanoplatelets hybrid on the mechanical properties of aluminium	Shrivastava P., Alam S.N., Panda D., Sahoo S.K., Maity T., Biswas K.	2020	104	-
833.	Metallurgical	Effect of Cu and Li Contents on	Nayan N.,	2020	51	1457-1462

	and Materials Transactions A: Physical Metallurgy and Materials Science	the Serrated Flow Behavior of Al-Cu-Li Based Alloys	Mukhopadhyay A.K., Narayana Murty S.V.S., Yadava M., Sarkar R., Prasad M.J.N.V., Samajdar I.			
834.	Journal of Alloys and Compounds	High strain rate compression behaviour of single phase CoCuFeMnNi high entropy alloy	Sonkusare R., Jain R., Biswas K., Parameswaran V., Gurao N.P.	2020	823	-
835.	Journal of Materials Engineering and Performance	Corrosion Behavior of Newly Developed High-Strength Bainitic Railway Wheel Steels	Moon A.P., Chandra Sekhar K., Mahanty S., Sangal S., Mondal K.	2020	29	3443-3459
836.	Journal of Materials Engineering and Performance	Experimental Characterization and Sintering Behavior in Mixed Atmosphere (N ₂ and H ₂) of Fe ₃ P-Added Ferritic Stainless Steel (434L)	Nirala A., Upadhyaya A.	2020	29	2926-2935
837.	Materials Characterization	On the kinetics of texture development in Al-Mg alloy under high strain rate tension	Nagarajan S., Gurao N.P., Parameswaran V.	2020	163	-
838.	Physica Status Solidi (B) Basic Research	Magnetic and Electron Spin Resonance Properties of Ba _x Sr _{2-x} TiCoO ₆ Double Perovskites	Sri Gyan D., Saxena M., Eremina R., Fazlizhanov I., Mamedov D., Yatsyk I., Shukla A.K., Dwivedi A., Maiti T.	2020	257	-
839.	Nanoscale	Multi-component (Ag-Au-Cu-Pd-Pt) alloy nanoparticle-decorated p-type 2D-molybdenum disulfide (MoS ₂) for enhanced hydrogen sensing	Urs K.M.B., Katiyar N.K., Kumar R., Biswas K., Singh A.K., Tiwary C.S., Kamble V.	2020	12	11830-11841
840.	Journal of Materials	Microstructure, Texture and Mechanical Properties of Al-Mg-	Roy A., Tiwari M., Sahu S., Mishra S.,	2020	29	3876-3888

	Engineering and Performance	Si Alloy Processed by Multiaxial Compression	Kumar A.			
841.	Surface Topography: Metrology and Properties	Structure and properties of pulse electrodeposited Cr-WC coating	Yadlapalli B.K., Maharana H.S., Basu A.	2020	8	-
842.	JOM	Role of Interfaces in Damage Initiation and Tolerance of Carbon Nanotube-Reinforced HfB ₂ -ZrB ₂ Ceramics	Dubey S., Awasthi S., Nisar A., Balani K.	2020	72	2207-2218
843.	Materials Today Energy	Formic acid and methanol electro-oxidation and counter hydrogen production using nano high entropy catalyst	Katiyar N.K., Nellaiappan S., Kumar R., Malviya K.D., Pradeep K.G., Singh A.K., Sharma S., Tiwary C.S., Biswas K.	2020	16	-
844.	Ceramics International	Oxidation behaviour of coarse and fine SiC reinforced ZrB ₂ at re-entry and atmospheric oxygen pressures	Hassan R., Kundu R., Balani K.	2020	46	11056-11065
845.	Physical Review B	K ₂ CoS ₂ : A two-dimensional in-plane antiferromagnetic insulator	Sarkar A.B., Ghosh B., Singh B., Bhowmick S., Lin H., Bansil A., Agarwal A.	2020	102	-
846.	Journal of Physical Chemistry C	Low-Temperature Propylene Epoxidation Activity of CuO-CeO ₂ Catalyst with CO + O ₂ : Role of Metal-Support Interaction on the Reducibility and Catalytic Property of CuO _x Species	Baidya T., Mazumder T., Koltunov K.Y., Likhar P.R., Clark A.H., Tiwari K., Sobolev V.I., Payra S., Murayama T., Lin M., Bera P., Roy S., Biswas K., Safonova O., Srinivasa Rao B.,	2020	124	14131-14146

			Haruta M.			
847.	Advanced Powder Technology	Fabrication of Al-Si controlled expansion alloys by unique combination of pressureless sintering and hot forging	Saraswat E., Maharana H.S., Narayana Murty S.V.S., Shekhar S., Kar K.K., Ramkumar J., Mondal K.	2020	31	2820-2832
848.	Computational Materials Science	A phase-field study on the evolution of Widmanstätten-ferrite plates under mixed-mode of transformation	Bhattacharya A., Mondal K., Upadhyay C.S., Sangal S.	2020	180	-
849.	Metals and Materials International	Direct Laser Deposition-Additive Manufacturing of Ti–15Mo Alloy: Effect of Build Orientation Induced Surface Topography on Corrosion and Bioactivity	Bhardwaj T., Shukla M., Prasad N.K., Paul C.P., Bindra K.S.	2020	26	1015-1029
850.	Surface and Coatings Technology	Tribomechanical insight into carbide-laden hybrid suspension-powder plasma-sprayed Tribaloy T400 composite coatings	Mistri M., Joshi S., Kar K.K., Balani K.	2020	396	p. 125957 (15 pp)
851.	Materials Science and Engineering A	On the extent of transformation of austenite to bainitic ferrite and carbide during austempering of high Si steel for prolonged duration and its effect on mechanical properties	Varshney A., Sangal S., Pramanick A.K., Mondal K.	2020	793	-
852.	Materials Science and Engineering A	Influence of yttrium addition on recrystallization, texture and mechanical properties of binary Mg–Y alloys	Ansari N., Sarvesha R., Lee S.Y., Singh S.S., Jain J.	2020	793	-
853.	ACS Sustainable Chemistry and Engineering	Green Route for Beneficiation of Metallic Materials from Electronic Waste for Selective Reduction of CO ₂	Sharma N., Bajpai A., Yadav P.K., Nellaiappan S., Sharma S., Tiwary C.S., Biswas K.	2020	8	12142-12150
854.	Journal of	Formation and stability of C14	Mishra S.S., Yadav	2020	832	-

	Alloys and Compounds	type Laves phase in multi component high-entropy alloys	T.P., Srivastava O.N., Mukhopadhyay N.K., Biswas K.			
855.	Journal of Materials Chemistry A	Triboelectric generators made of mechanically robust PVDF films as self-powered autonomous sensors for wireless transmission based remote security systems	Fatma B., Gupta S., Chatterjee C., Bhunia R., Verma V., Garg A.	2020	8	15023-15033
856.	Materials Science and Technology (United Kingdom)	Evolution of rotated Brass texture by cross rolling: implications on formability	Mishra S., Kumar M., Singh A.	2020	36	1272-1281
857.	Journal of Applied Physics	Tuning field-emission characteristics of ZnO nanorods through defect engineering via O ⁺ ion irradiation	Singh A., Senapati K., Singh R., Rajput P., Som T., Sahoo P.K.	2020	128	-
858.	Materials Science and Engineering A	Comparative study on the stress corrosion cracking susceptibility of AZ80 and AZ31 magnesium alloys	Dubey D., Kadali K., Panda S.S., Kumar A., Jain J., Mondal K., Singh S.S.	2020	792	-
859.	Advanced Powder Technology	Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder	Bhushan B., Jahan K., Kumar Katiyar P., Murty B.S., Mondal K.	2020	31	3093-3101
860.	Journal of the American Ceramic Society	Effect of Zn and Co doping on antibacterial efficacy and cytocompatibility of spark plasma sintered hydroxyapatite	Bhattacharjee A., Hassan R., Gupta A., Verma M., Murugan P.A., Sengupta P., Saravanan M., Manna I., Balani K.	2020	103	4090-4100
861.	Physical Chemistry Chemical Physics	Solution combustion synthesis, characterization, magnetic, and dielectric properties of CoFe ₂ O ₄ and	Bera P., Lakshmi R.V., Prakash B.H., Tiwari K., Shukla A., Kundu A.K., Biswas	2020	22	20087-20106

		Co _{0.5} Mn _{0.5} Fe ₂ O ₄ (M = Mn, Ni, and Zn)	K., Barshilia H.C.			
862.	International Journal of Hydrogen Energy	Synthesis of fine skeletal structure on Al–Cu–Co decagonal quasicrystals for hydrogen production through steam reforming of methanol	Mishra S.S., Yadav T.P., Mukhopadhyay N.K., Srivastava O.N.	2020	45	24491-24501
863.	Surface and Coatings Technology	Investigation of nano- and micro-scale structural evolution and resulting corrosion resistance in plasma sprayed Fe-based (Fe-Cr-B-C-P) amorphous coatings	Kumar A., Nayak S.K., Sarkar K., Banerjee A., Mondal K., Laha T.	2020	397	-
864.	Materials Letters	Effect of severe plastic deformation through machining on the microstructure and corrosion behavior of end milled nimonic 263 alloy	Gowthaman S., Jagadeesha T., Neetu	2020	275	-
865.	Journal of Alloys and Compounds	Nanoparticle formation through dewetting of a solid-state thin film on a substrate: A phase-field study	Verma M., Mukherjee R.	2020	835	155163
866.	International Journal of Hydrogen Energy	Hybrid hollow structures for hydrogen storage	Gupta A., Shervani S., Rani P., Sivakumar S., Balani K., Subramaniam A.	2020	45	24076-24082
867.	Electrochimica Acta	High-performance SrFe _{0.1} Mo _{0.9} O _{3-δ} -based composites for the anode application in solid oxide fuel cells	Das A., Kumar S., Kumar S., Omar S.	2020	354	-
868.	Journal of Alloys and Compounds	Evolution of porous structure on Al–Cu–Fe quasicrystalline alloy surface and its catalytic activities	Mishra S.S., Yadav T.P., Singh S.P., Singh A.K., Shaz M.A., Mukhopadhyay N.K., Srivastava	2020	834	-

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869.	Journal of Alloys and Compounds	Melting behaviour of tri-phasic Bi ₄₄ In ₃₂ Sn ₂₃ alloy nanoparticle embedded in icosahedral quasicrystalline matrix	Tiwari K., Biswas K., Palliwal M., Majumdar B., Fecht H.-J.	2020	834	-
870.	Journal of Physical Chemistry C	High 3D Proton Conductivity of a 2D Zn(II) Metal-Organic Framework Synthesized via Water-Assisted Single-Crystal-to-Single-Crystal Phase Transformation	Agarwal R.A., Das A., Omar S.	2020	124	18901-18910
871.	Proceedings of the Indian National Science Academy	Exploration of high symmetry β -P _x Si _y materials for 2D-electronics	Agnihotri S., Agarwal A., Bhowmick S., Chauhan Y.S.	2020	86	1225-1232
872.	Polymer Composites	Damage mechanics of polypropylene-based composites using progressive- and constant-load scratching	Ariharan S., Maurya R., Sharma R.K., Sharma V.K., Lohia S., Balani K.	2020	41	3830-3841
873.	Journal of Materials Engineering and Performance	Effect of Heat Treatment on the Microstructure Evolution and Sensitization Behavior of High-Silicon Stainless Steel	Setia P., Anand A., Venkateswaran T., Tharian K.T., Singh S.S., Mondal K., Shekhar S.	2020	29	6014-6024
874.	Materialia	Enhanced age hardening effects in FCC based Co _{1.5} CrFeNi _{1.5} high entropy alloys with varying Ti and Al contents	Nandal V., Sarvesha R., Singh S.S., Huang E.-W., Chang Y.-J., Yeh A.-C., Jain J., Neelakantan S.	2020	13	-
875.	Ceramics International	Wear damage tolerance and high temperature oxidation behavior of HfB ₂ :ZrB ₂ -SiC composites	Nisar A., Bajpai S., Khan M.M., Balani K.	2020	46	21689-21698
876.	International Journal of	Role of impinging powder particles on melt pool	Aggarwal A., Chouhan A., Patel S.,	2020	158	-

	Heat and Mass Transfer	hydrodynamics, thermal behaviour and microstructure in laser-assisted DED process: A particle-scale DEM – CFD – CA approach	Yadav D.K., Kumar A., Vinod A.R., Prashanth K.G., Gurao N.P.			
877.	Journal of the American Ceramic Society	High-pressure structural investigation on lead-free piezoelectric 0.5Ba(Ti0.8Zr0.2)O3 - 0.5(Ba0.7Ca0.3)TiO3	Mondal A., Saha P., Ghosh B., Sahu M., Mukherjee G.D., Ranjan R., Brajesh K.	2020	103	5259-5269
878.	Journal of Physics and Chemistry of Solids	Organic-inorganic hybrid halide perovskites impregnated with Group 1 and 15 elements for solar cell application	Dey P., Singh H., Gupta R.K., Goswami D., Maiti T.	2020	144	-
879.	Journal of Physical Chemistry C	Long-Term Conductivity Stability of Metastable Tetragonal Phases in 1Yb2O3- xSc2O3-(99 - X)ZrO2(x = 7, 8 mol %)	Shukla V., Singh S., Subramaniam A., Omar S.	2020	124	23490-23500
880.	Journal of Physical Chemistry C	Probing the Interface Activation in Designing Defect-Free Multilayered Polymer Nanocomposites for Dielectric Capacitor Applications	Prateek, Bhunia R., Garg A., Gupta R.K.	2020	124	22914-22924
881.	International Journal of Hydrogen Energy	An alternative and comprehensive approach to estimate trapped hydrogen in steels using electrochemical permeation tests	Samanta S., Kumari P., Mondal K., Dutta M., Singh S.B.	2020	45	26666-26687
882.	Physica B: Condensed Matter	A new perspective to thermodynamical designing of high entropy bulk metallic glasses (HE-BMGs)	Bajpai A., Bhatt J., Biswas K., Gurao N.P.	2020	595	-
883.	Materials Science and Engineering A	Effect of B4C reinforcement on microstructure, residual stress, toughening and scratch resistance of (Hf, Zr)B2 ceramics	Bajpai S., Kundu R., Balani K.	2020	796	140022 (18 pp)
884.	Journal of	Effect of Micro-alloying and	Mandal M., Mondal	2020	29	6691-6700

	Materials Engineering and Performance	Microstructure on the Corrosion Behavior of As-Cast Mg-6.2 wt.% Zn Alloy	K.			
885.	Journal of Structural Geology	Resurfacing of deeply buried oceanic crust in Naga Hills Ophiolite, North-East India: Petrofabric, microstructure and seismic properties	Abdullah S., Misra S., Sarvesha R., Ghosh B.	2020	139	-
886.	Materials Chemistry and Physics	Photodegradation of methylene blue dye by powders of Ni–ZnO floweret consisting of petals of ZnO nanorod around Ni-rich core	Bhushan B., Jahan K., Verma V., Murty B.S., Mondal K.	2020	253	-
887.	Materials Chemistry and Physics	Enhanced tribological performances of zinc oxide/MWCNTs hybrid nanomaterials as the effective lubricant additive in engine oil	Vardhaman B.S.A., Amarnath M., Ramkumar J., Mondal K.	2020	253	-
888.	Physical Chemistry Chemical Physics	Design of iso-material heterostructures of TiO ₂ : Via seed mediated growth and arrested phase transitions	De D.S., Behara D.K., Saha S., Kumar A., Subramaniam A., Sivakumar S., Pala R.G.S.	2020	22	25366-25379
889.	Materials Letters	Anomalous coarsening behaviour in Ni-Al alloys: Insights from phase-field simulations	Chafle R., Mukherjee R.	2020	279	128444
890.	ACS Biomaterials Science and Engineering	Adhesin Protein Interaction of Staphylococcus Aureus Bacteria with Various Biomaterial Surfaces	Raj A., Dhandia N., Balani K.	2020	6	6161-6172
891.	ChemElectroChem	Activated Porous Highly Enriched Platinum and Palladium Electrocatalysts from Dealloyed Noncrystalline Alloys for Enhanced Hydrogen Evolution	Sahu A., Mondal K., Pala R.G.	2020	7	4405-4416

892.	Journal of Materials Engineering and Performance	Effect of HNO ₃ and FeCl ₃ Additives on the Pickling Ability of Fayalite-Containing Oxide Film from Si-Containing Steels	Banik D., Pathak A., Bhardwaj A., Mondal K.	2020	29	7648-7661
893.	Metals	Novel multicomponent B2-ordered aluminides: Compositional design, synthesis, characterization, and thermal stability	Mohan Muralikrishna G., Carmel Mary Esther A., Guruvidyathri K., Watermeyer P., Liebscher C.H., Kulkarni K.N., Wilde G., Divinski S.V., Murty B.S.	2020	10	1-19
894.	Intermetallics	Atomic transport in B2-ordered Al(Fe,Ni) alloys: Tracer-interdiffusion couple approach	Muralikrishna G.M., Esin V.A., Kulkarni K.N., Murty B.S., Wilde G., Divinski S.V.	2020	126	-
895.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	Effect of Initial Texture on the Evolution of Microstructure and Texture During Rolling of Commercially Pure Titanium at Room and Cryogenic Temperature	Sahu V.K., Gupta S., Gurao N.P.	2020	51	5848-5860
896.	Scripta Materialia	High entropy alloys: Key issues under passionate debate	Biswas K., Yeh J.-W., Bhattacharjee P.P., DeHosson J.T.M.	2020	188	54-58
897.	Journal of Power Sources	Validation of defect association energy on modulating oxygen ionic conductivity in low temperature solid oxide fuel cell	Pandiyan A., Uthayakumar A., Lim C., Ganesan V., Yu W., Das A., Lee S., Tsampas M.N., Omar S., Han J.W., Krishna Moorthy	2020	480	-

			S.B., Cha S.-W.			
898.	Journal of Power Sources	Device modeling and performance optimization of thermoelectric generators under isothermal and isoflux heat source condition	Ranjan M., Maiti T.	2020	480	-
899.	ACS Applied Energy Materials	Improving the Electrochemical Performance of Na ₃ V ₂ (PO ₄) ₃ Cathode in Na-Ion Batteries by Si-Doping	Pal S.K., Thirupathi R., Chakrabarty S., Omar S.	2020	3	12054-12065
900.	Surface and Coatings Technology	Superhydrophobic, self-cleaning carbon nanofiber CVD coating for corrosion protection of AISI 1020 steel and AZ31 magnesium alloys	Siddiqui A.R., Maurya R., Katiyar P.K., Balani K.	2020	404	126421 (11 pp)
901.	Journal of Alloys and Compounds	Grain size dependence of electrical transport in magnetoelectric gallium ferrite ceramics	Bansal U., Singh V., Brajesh K., Gupta R., Garg A.	2020	847	-
902.	Chemistry - A European Journal	Environmentally Benign, Intrinsically Coordinated, Lithium-Based Solid Electrolyte with a Modified Purine as Supporting Ligand	Avasthi I., Gaganjot, Katiyar M., Verma S.	2020	26	16706-16711
903.	International Journal of Biological Macromolecules	Synergistic effect of bacterial cellulose reinforcement and succinic acid crosslinking on the properties of agar	Belay M., Tyeb S., Rathore K., Kumar M., Verma V.	2020	165	3115-3122
904.	Surface and Coatings Technology	Development of amorphous Ni-P coating over API X70 steel for hydrogen barrier application	Samanta S., Singh C., Banerjee A., Mondal K., Dutta M., Singh S.B.	2020	403	-
905.	Nanomaterials	Human teeth-derived bioceramics for improved bone regeneration	Lim K.-T., Patel D.K., Dutta S.D., Choung H.-W., Jin H., Bhattacharjee A.,	2020	10	1-16

			Chung J.H.			
906.	Applied Materials Today	Effect of semiconductor to metal transition on thermoelectric performance in oxide nanocomposites of SrTi _{0.85} Nb _{0.15} O ₃ with graphene oxide	Dey P., Jana S.S., Anjum F., Bhattacharya T., Maiti T.	2020	21	-
907.	Transactions of the Indian Institute of Metals	Assessment of Tundish Process Performance at Industrial Scale	Mazumdar D., Agnihotri A., Karnik M., Mehta S., Misra S., Satish D.	2020	73	3079-3093
908.	Journal of Thermal Spray Technology	Comparative Wear Behavior of Semicrystalline HVOF and Plasma Sprayed Phosphorous-Rich Pig Iron Coatings	Naidu T.D., Rai P.K., Sarkar K., Bijalwan P., Pathak A., Dutta M., Banerjee A., Mondal K.	2020	29	2048-2064
909.	Corrosion Science	Oxidation kinetics of ZrB ₂ -and HfB ₂ -powders and their SiC reinforced composites	Hassan R., Balani K.	2020	177	-
910.	Advanced Engineering Materials	Engineered Role of SiC Particle Size on Multi-Length-Scale Wear Damage of Spark Plasma Sintered Zirconium Diboride	Hassan R., Balani K.	2020	22	-
911.	Materialia	Effect of La addition on precipitation hardening in Mg–10Dy alloy	Prasad A., Si S., Ghorl U.R., Thirunavukkarasu G., Chiu Y.L., Jones I.P., Lee S.Y., Singh S.S., Gosvami N.N., Jain J.	2020	14	-
912.	Ultrasonics Sonochemistry	Effect of pearlitic morphology with varying fineness on the cavitation erosion behavior of eutectoid rail steel	Rajput A., Ramkumar J., Mondal K.	2021	71	-
913.	Materials	Easy scalable avenue of anti-	Katiyar N.K., Biswas	2021	26	-

	Today Communications	bacterial nanocomposites coating containing Ag NPs prepared by cryomilling	K.			
914.	Journal of Materials Science: Materials in Electronics	Study on dielectric properties of PVP and Al ₂ O ₃ thin films and their implementation in low-temperature solution-processed IGZO-based thin-film transistors	Choudhary I., Deepak	2021	32	7875-7888
915.	Surface and Coatings Technology	Electroless NiP coatings over API X70 steel: Effect of composition on the H-permeation and corrosion resistance	Samanta S., Mondal K., Dutta M., Singh S.B.	2021	409	-
916.	Engineering Fracture Mechanics	Modelling delaminations using adaptive cohesive segments with rotations in dynamic explicit analysis	Selvaraj J., Mukhopadhyay S., Kawashita L.F., Hallett S.R.	2021	245	-
917.	Surface and Coatings Technology	Manifestation of Hall–Petch breakdown in nanocrystalline electrodeposited Ni-MoS ₂ coating and its structure dependent wear resistance behavior	Maharana H.S., Mondal K.	2021	410	-
918.	Carbon Letters	Chickpea peel waste as sustainable precursor for synthesis of fluorescent carbon nanotubes for bioimaging application	Singh V., Chatterjee S., Palecha M., Sen P., Ateeq B., Verma V.	2021	31	117-123
919.	Materials Science in Semiconductor Processing	Scalable fabrication and electrical contact formation process for vertically oriented silicon nanopillars in trenches	Kumar J., Ingole S.	2021	122	-
920.	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing	Tundish Process Performance Parameters and Their Direct Estimation from a New, Plant Measurement-Based Formalism	Mazumdar D.	2021	52	23-29

	Science					
921.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	Effect of Pre-induced Plastic Strains on the Corrosion Behavior of Reinforcing Bar in 3.5 pct NaCl Solution	Behera P.K., Katiyar P.K., Misra S., Mondal K.	2021	52	605-626
922.	Solid State Ionics	Effect of sintering temperature on the microstructure and conductivity of Na _{0.54} Bi _{0.46} Ti _{0.99} Mg _{0.01} O _{3-δ}	Bhattacharyya R., Das S., Das A., Omar S.	2021	360	-
923.	Journal of Thermal Science and Engineering Applications	One-dimensional zonal model for the unsteady heat transfer analysis in an open volumetric air receiver	Singh G., Kumar V.D., Chandra L., Shekhar R., Ghoshdastidar P.S.	2021	13	-
924.	Langmuir	Low-Voltage Nongassing Electroosmotic Pump and Infusion Device with Polyoxometalate-Encapsulated Carbon Nanotubes	Sreenath S., Suman R., Sayana K.V., Nayanthara P.S., Borle N.G., Verma V., Nagarale R.K.	2021	37	1563-1570
925.	Journal of Alloys and Compounds	Effect of Ga substitution on structural and magnetic properties of Fe ₅₀ Mn ₂₅ Al _{25-x} Ga _x Heusler alloys	Mishra S.S., Yadav T.P., Yadav R.M., Puthirath A.B., Deng L., Adnani M., Chu C.-W., Vajtai R., Ajayan P.M., Biswas K., Mukhopadhyay N.K., Srivastava O.N.	2021	854	-
926.	Materials Chemistry and Physics	The effect of grain boundary structure on chromium carbide precipitation in alloy 600	Sahu S., Patel S.K., Shekhar S.	2021	260	-
927.	Physical Review B	Decoupled strain response of ferroic properties in a multiferroic	Mahajan A., Bhowmick S.	2021	103	-

		VOC12 monolayer				
928.	Journal of Alloys and Compounds	Influence of pre-deformation on the precipitation characteristics of aged non-equiatomic Co1.5CrFeNi1.5 high entropy alloys with Ti and Al additions	Nandal V., Sarvesha R., Singh S.S., Huang E.-W., Chang Y.-J., Yeh A.-C., Neelakantan S., Jain J.	2021	855	-
929.	Journal of Materials Science	New perspectives on twinning events during strain-induced grain boundary migration (SIBM) in iteratively processed 316L stainless steel	Sharma N.K., Shekhar S.	2021	56	792-814
930.	Journal of Materials Science	Understanding the effect of bimodal microstructure on the strength–ductility synergy of Al–CNT nanocomposites	Singh L.K., Bhadauria A., Laha T.	2021	56	1730-1748
931.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	Investigations of Ternary Interdiffusion in β (BCC) Phase Field of Ti-Al-Mo Alloy System	Chauhan G.P.S., Kulkarni K.N.	2021	52	413-425
932.	Corrosion Science	Effect of various phase fraction of bainite, intercritical ferrite, retained austenite and pearlite on the corrosion behavior of multiphase steels	Neetu, Katiyar P.K., Sangal S., Mondal K.	2021	178	-
933.	Solar Energy	Role of DIO vis-à-vis microstructural kinetics during thermal annealing on the performance of PTB7:PC71BM organic solar cells	Gupta S.K., Yadav J., Chaturvedi N., Ranjan R., Pali L.S., Nalwa K.S., Garg A.	2021	213	27-35
934.	Materials Characterization	2D and 3D characteristics of intermetallic particles and their role in fracture response of AZ91	Sarvesha R., Bhagyaraj J., Bhagavath S.,	2021	171	-

		magnesium alloy	Karagadde S., Jain J., Singh S.S.			
935.	AIP Advances	Analytical solution for interdiffusion in multicomponent systems and its application in high entropy alloys	Kulkarni K.N.	2021	11	-
936.	MRS Bulletin	Flash sintering: A new frontier in defect physics and materials science	Raj R., Kulkarni A., Lebrun J.-M., Jha S.	2021	46	36-43
937.	Materials Performance and Characterization	Effect of cyclic prestrain on tensile behavior of commercially pure copper	Manda S., Mishra S., Gurao N.P.	2021	10	370-381
938.	Crystal Growth and Design	Size Reducing Rupture during "growth" of LnF ₃ (Ln = La, Lu, Y) Nanocrystals Due to Cogeneration of Structure and Stress	Bhattacharya D., Sasmal S., Iyer G., Saha S., Subramaniam A., Pala R.G.S., Sivakumar S.	2021	21	94-102
939.	Solar Energy	Inverted PTB7-Th:PC71BM organic solar cells with 11.8% PCE via incorporation of gold nanoparticles in ZnO electron transport layer	Usmani B., Ranjan R., Prateek, Gupta S.K., Gupta R.K., Nalwa K.S., Garg A.	2021	214	220-230
940.	Materials Science and Engineering A	Initial texture dependence of nanocrystalline omega phase formation during high pressure torsion of commercially pure titanium	Sinha S., Sahu V.K., Beura V., Sonkusare R., Kalsar R., Das A.K.L., Basu J., Gurao N.P., Biswas K.	2021	802	-
941.	International Journal of Hydrogen Energy	Cross-sectional TEM investigation of Mg-LaNi ₅ -Soot hybrids for hydrogen storage	Faisal M., Balani K., Subramaniam A.	2021	46	5507-5519
942.	Journal of	An Opinion on Hydroxyapatite	Kantesh Balani	2020	3-4	17-26

	Metallurgy and Materials Science	Based Bio-composites as Bone Scaffolds				
943.	Polymer Testing	Multi-length Scale Wear Damage Mechanisms of Ultra-high Molecular Weight Polyethylene Nanocomposites	Alam, A. Kumar, V.R. Shukla, A. Nisar, and Kantesh Balani,	2020	81	106210 (11pp).
944.	Ceramics International,	Antibacterial and Magnetic Response of Site-Specific Cobalt Incorporated Hydroxyapatite	A. Bhattacharjee, A. Gupta, P.A. Murugan, P. Sengupta, M. Verma, S. Matheshwaran, I. Manna, and Kantesh Balani	2020	46(1)	513-522.
945.	Surface & Coatings Technology	Synergistic Role of Carbon Nanotube and Ytria Stabilised Zirconia Reinforcement on Wear and Corrosion Resistance of Cr-Based Nanocomposite Coatings	P. Tripathi, P.K. Katiyar, J. Ramkumar, Kantesh Balani,	2020	385	125381 (12 pp)
946.	Journal of Alloys and Compounds,	Tuning the Magnetism and Tribological Behaviour of Electrodeposited Ni/Cu Bi-layer by Selective Reinforcement of Carbon Nanotubes	S. Awasthi, S.K. Pandey, Kantesh Balani	2020	818	153287 (11 pp)
947.	Advanced Materials Interfaces	Progress in Electrophoretic Deposition of Nickel with Carbonaceous Allotropes: A Review	S. Awasthi, S.K. Pandey, C.P. Pandey, Kantesh Balani	2020	7	1901096 (33 pp)
948.	Journal of Materials Research and Technology	Effect of Heat-treatment on Microstructure, Mechanical and Tribological Properties of Mg-Li-Al Based Alloy	R. Maurya, D. Mittal, and Kantesh Balani	2020	9(3)	11056-11065
949.	Journal of Applied Polymer Science,	Effects of reinforcements and gamma-irradiation on ultra-high molecular weight polyethylene for hip arthroplasty: A review	C. Nayak, Kantesh Balani	2021	e51275	29 pp

950.	Journal of Materials Research	Influence of Laser Surface Texturing on the Wettability and Antibacterial properties of Metallic, Ceramic, and Polymeric Surfaces	I. Singh, S.M. George, A. Tiwari, J. Ramkumar, Kantesh Balani,	2021	DOI: 10.1557/s43578-021-00273-8.	15pp
951.	Journal of Materials Research and Technology	Radiation-Induced Effects on Micro-Scratch of Ultra High Molecular Weight Polyethylene Based Nanocomposites	C. Nayak, Ariharan S, B. Kundu, V.K. Balla, Kantesh Balani	2021	11	2277-2293
952.	Journal of the European Ceramic Society,	Deposition of hydroxyapatite coatings by axial plasma spraying: influence of feedstock characteristics on coating microstructure, phase and mechanical properties	A. Ganvir, S. Nagar, N. Markocsan, Kantesh Balani	2021	41(8)	4637-4649.
953.	Nanomaterials and Energy	Tribological properties of SS 304 and Ti6Al4V using four reciprocating geometries under dry and lubricated conditions	C. Nayak, R. Kundu, Kantesh Balani	2021	10(1)	1-12
954.	Materials Characterization	Densification Mechanism of Spark Plasma Sintered ZrB ₂ and ZrB ₂ -SiC Ceramic Composites	R. Hassan, Kantesh Balani,	2021	179	111320 (10pp)
955.	International Journal of Refractory Metals and Hard Materials	Fretting wear behaviour and frictional force mapping of Al ₂ O ₃ based thermal barrier coatings	Ariharan S, Kantesh Balani	2021	98	1.105525 (10 pp).
956.	International Journal of Refractory Metals and Hard Materials,	Damage mechanics of Cr-based hybrid coatings: Boron nitride, graphene and diamond co-deposited with Ytria Stabilized Zirconia	P. Tripathi, J. Ramkumar, Kantesh Balani	2021	99	105590 (9 pp).
957.	Journal of Materials Science	Microscratching and Fretting of Electro-co-deposited Cr-based Composite Coatings with BN,	P. Tripathi, J. Ramkumar, Kantesh Balani	2021	56	6148-6166

		Graphene, and Diamond Reinforcement				
958.	Materialia	High-temperature mechanical properties and fatigue of nanocrystalline nickel-cobalt-phosphorous (NiCoP) alloy	Badwe, N., Daharwal, P., Rawlings, T., Diglio, P., Wozny, S., Khurana, M., Tadayon, P., Hsieh, G. and Renavikar, M.	2021	18	101136
959.	Journal of Applied Polymer Science	Bacterial cellulose/PANi mat for Cr (VI) removal at acidic pH	K Jahan, N Kumar, V Verma	2021		51309
960.	Journal of Applied Electrochemistry	Hydrothermal fluorination of carbon nanotubes and its composite with metal ion-doped ceria for a non-gassing flow-in-a-cell application	S Sreenath, R Suman, NM Chola, V Verma, RK Nagarale	2021	51(6)	933-943
961.	Journal of Polymers and the Environment	Bacterial cellulose-polyaniline porous mat for removal of methyl orange and bacterial pathogens from potable water	K Jahan, S Tyeb, N Kumar, V Verma	2021	29(4)	1257-1270
962.	ACS Applied Bio Materials	Agar–Iodine Transdermal Patches for Infected Diabetic Wounds	S Tyeb, N Kumar, A Kumar, V Verma	2020	3 (11)	7515-7530
963.	Critical reviews in biotechnology	Current progress on the production, modification, and applications of bacterial cellulose	FG Blanco Parte, SP Santoso, CC Chou, V Verma, HT Wang, S Ismadji, et al.	2020	40 (3)	397-414
964.	Nanoscale Advances	Tight-binding investigation of the structural and vibrational properties of graphene–single wall carbon nanotube junctions	Juhi Srivastava and Anshu Gaur	2021	3	2030-2038
965.	Journal of Micromanufacturing	An analytical modelling of cutting forces in orthogonal elliptical vibration cutting	A. Shirale, S. Sahu, S Kumar Patel, J. Ramkumar, S. Shekhar	2021	4(1)	36-49

966.	Journal of Applied Physics	Grain growth stagnation in solid state thin films: A phase-field study	Verma M., Mukherjee R.	2021	130	025305-1 to 025305-14
967.	Philosophical Magazine Letters	A phase-field study on a eutectic high-entropy alloy during solidification	Sagar B., Biswas K. and Mukherjee R.	2021	101	160–172
968.	Metallurgical and Materials Transactions A	Effect of Varying Molar Volume on Interdiffusion Analysis in a Binary System	Aparna Tripathi and Kaustubh N. Kulkarni	2021	DOI: 10.1007/s11661-021-06320-7	1-14
969.	Journal of Alloys and Compounds	Diffusion couple experiments and calculations in Fe-Cr-Ni-Al system at 800–1000 °C	Rohit Ojha, Kaustubh N. Kulkarni, Thomas Helander, KC Hari Kumar	2021	863	-
970.	Journal of Materials Research	First Report on Entire Sets of Experimentally Determined Interdiffusion Coefficients in Quaternary and Quinary High Entropy Alloys	V. Verma, A. Tripathi, T. Venkateswaran	2020	35 (2)	162-171
971.	Metallurgical and Materials Transactions A	Interdiffusion in β (BCC) phase of Ti-Al-Mn system at 1100 °C”	A. Tripathi, A. Kulkarni and Kaustubh N. Kulkarni	2020	51	1789-1798
972.	CALPHAD	Kinetic Modelling of α -BCC Phase in Ti-Al-Nb System in the Temperature Range of 1060-1200 °C	A. Tripathi, K. C. Hari Kumar, Kaustubh N. Kulkarni	2020	68	1-6
973.	IEEE Journal of the Electron Devices Society	Compact Modeling of Multi-Layered MoS2 FETs Including Negative Capacitance Effect	Keshari Nandan, Chandan Yadav, Priyank Rastogi, Alejandro Toral-Lopez, Antonio Marin-Sanchez, Enrique G Marin,	2020	8	1177-1183

			Francisco G Ruiz, Somnath Bhowmick, Yogesh S Chauhan			
974.	ACS Applied Materials Interfaces	Tailoring Electrode– Electrolyte Interfaces in Lithium- Ion Batteries Using Molecularly Engineered Functional Polymers	L Su, J. Weaver, M. Groenenboom, N. Nakamura, E. Rus, P Anand, Shikhar K. Jha, J. Okasinski, J. A. Dura,& B. Reeja- Jayan	2021	13	8425-8434.
975.	Journal of Materials Chemistry A	Linking far-from-equilibrium defect structures in ceramics to electromagnetic driving forces	N. Nakamura, L. Su, H Wang, N. Bernstein, Shikhar K. Jha, H. Wang, S. JL Billinge, C. S. Hellberg, & B. Reeja- Jayan	2021	9	9919-9931
976.	Scripta Materialia	Electric field-induced grain boundary degradation mechanism in yttria stabilized zirconia	H Charalambous, SK Jha, KSN Vikrant, RE García, XL Phuah, H Wang	2021	204	114130
977.	Scripta Materialia	Generation of electric-field stabilized zirconium monoxide secondary phase within cubic zirconia	H. Charalambous, Shikhar K. Jha, J. S. Okasinski, and T. Tsakalakos	2021	190	22-26
978.	J. Mater Sci	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation.	L. Su, Shikhar K. Jha, X. L. Phuah, J. Xu, N. Nakamura, H. Wang, J. S. Okasinski, & B. Reeja-Jayan	2020	55	12177- 12190
979.	Journal of the European Ceramic Society	Current-ramp assisted sintering of 3YSZ Electrochemical and microstructural comparison to flash and thermal sintering	KH Christian, H Charalambous, SK Jha, T Tsakalakos	2020	40	436-443

980.	Materialia	Flash-induced spreading of metals on zirconia	G Kiniger, V Sglavo, SK Jha, R Raj	2020	176	73-77
981.	Nano Energy	High performance ($ZT > 1$) n-type oxide thermoelectric composites from earth abundant materials	M. Acharya, S. S. Jana, M. Ranjan and T. Maiti	2021	84	
982.	Solar Energy	Formamidinium containing tetra cation organic-inorganic hybrid perovskite solar cell	H. Singh, P. Dey, S. Chatterjee, P. Sen, and T. Maiti	2021	220	258–268
983.	ACS Sustainable Chemistry & Engineering	High-Entropy Perovskites: An Emergent Class of Oxide Thermoelectrics with Ultralow Thermal Conductivity	R. Banerjee, S. Chatterjee, M. Ranjan, T. Bhattacharya, S. Mukherjee, S. S. Jana, A. Dwivedi, and T. Maiti	2020	8	17022–17032
984.	Journal of Physics: Condensed Matter	Effect of B-site cation ordering on high temperature thermoelectric behavior of $\text{Ba}_x\text{Sr}_{2-x}\text{TiFeO}_6$ double perovskites	D. S. Gyan, V. Sundram, A. Dwivedi, S. Bhowmick and T. Maiti	2020	32 (23)	
Mathematics and Statistics						
985.	Journal of Applied Statistics	A bivariate inverse Weibull distribution and its application in complementary risks model	Mondal S., Kundu D.	2020	47	1084-1108
986.	Communications in Algebra	Deformation of hom-Lie-Rinehart algebras	Mandal A., Mishra S.K.	2020	48	1653-1670
987.	Journal of Scientific Computing	Galerkin Boundary Element Methods for High-Frequency Multiple-Scattering Problems	Ecevit F., Anand A., Boubendir Y.	2020	83	-
988.	Rendiconti del Circolo Matematico di Palermo	Weighted boundedness of multilinear maximal function using Dirac deltas	Ghosh A., Shrivastava S., Shuin K.	2020	69	273-285
989.	Applied Numerical Mathematics	On subgrid multiscale stabilized finite element method for advection-diffusion-reaction	Chowdhury M., Kumar B.V.R.	2020	150	576-586

		equation with variable coefficients				
990.	Topology and its Applications	An upper bound for higher topological complexity and higher strongly equivariant complexity	Paul A.K., Sen D.	2020	277	-
991.	International Journal of Bifurcation and Chaos	Rich Bifurcation Structure of Prey-Predator Model Induced by the Allee Effect in the Growth of Generalist Predator	Sen D., Petrovskii S., Ghorai S., Banerjee M.	2020	30	-
992.	Nonlinear Dynamics	Analytical and numerical detection of traveling wave and wave-train solutions in a prey–predator model with weak Allee effect	Manna K., Pal S., Banerjee M.	2020	100	2989-3006
993.	Algebra Universalis	On the structure of C-algebras through atomicity and if-then-else	Panicker G., Krishna K.V., Bhaduri P.	2020	81	-
994.	Physica A: Statistical Mechanics and its Applications	Spatial behavioural responses to the spread of an infectious disease can suppress Turing and Turing–Hopf patterning of the disease	d'Onofrio A., Banerjee M., Manfredi P.	2020	545	-
995.	Computers and Mathematics with Applications	An anisotropic PDE model for image inpainting	Halim A., Kumar B.V.R.	2020	79	2701-2721
996.	Mediterranean Journal of Mathematics	Multiplicity of Solution for a Quasilinear Equation with Singular Nonlinearity	Bal K., Garain P.	2020	17	-
997.	International Journal of Applied and Computational Mathematics	Exponentially Refined Mesh for Singularly Perturbed Interior Layer Problem	Ramesh V.P., Kadalbajoo M.K., Prithvi M., Priyanga B.	2020	6	-
998.	Potential Analysis	Solutions of SPDE's Associated with a Stochastic Flow	Bhar S., Bhaskaran R., Sarkar B.	2020	53	203-221
999.	Journal of	Unitary equivalence of operator-	Gupta R., Kumar S.,	2020	487	-

	Mathematical Analysis and Applications	valued multishifts	Trivedi S.			
1000.	Mathematical Biosciences and Engineering	Spatio-temporal Bazykin's model with space-time nonlocality	Pal S., Banerjee M., Volpert V.	2020	17	4801-4824
1001.	Journal of Applied Statistics	On the improved estimation of a function of the scale parameter of an exponential distribution based on doubly censored sample	Patra L.K.	2020	47	1637-1651
1002.	Communications in Statistics: Simulation and Computation	On absolutely continuous bivariate generalized exponential power series distribution	Roозegar R., Kundu D.	2020	49	1678-1703
1003.	Bulletin of Mathematical Biology	Modelling the Effect of Incubation and Latent Periods on the Dynamics of Vector-Borne Plant Viral Diseases	Al Basir F., Adhurya S., Banerjee M., Venturino E., Ray S.	2020	82	-
1004.	Advances in Operator Theory	The Cauchy dual subnormality problem for cyclic 2-isometries	Anand A., Chavan S., Jabłoński Z.J., Stochel J.	2020	5	1061-1077
1005.	Applied Stochastic Models in Business and Industry	Bayesian optimal life-testing plan under the balanced two sample type-II progressive censoring scheme	Mondal S., Bhattacharya R., Pradhan B., Kundu D.	2020	36	628-640
1006.	Journal of Computational and Applied Mathematics	Non-conforming least-squares spectral element method for Stokes equations on non-smooth domains	Mohapatra S., Dutt P., Rathish Kumar B.V., Gerritsma M.I.	2020	372	-
1007.	Journal of Algebra	Integrable modules for twisted toroidal extended affine Lie algebras	Rao S.E., Sharma S.S., Batra P.	2020	556	1057-1072
1008.	Journal of Algebra	Hom-associative algebras up to homotopy	Das A.	2020	556	836-878

1009.	Optimization	On a practical notion of Geoffrion proper optimality in multicriteria optimization	Shukla P.K., Dutta J., Deb K., Kesarwani P.	2020	69	1513-1539
1010.	Brazilian Journal of Probability and Statistics	Improved estimators of the entropy in scale mixture of exponential distributions	Petropoulos C., Patra L.K., Kumar S.	2020	34	580-593
1011.	Mediterranean Journal of Mathematics	Multiplicity of Solution for a Quasilinear Equation with Singular Nonlinearity	Bal K., Garain P.	2020	17	-
1012.	Archive for Mathematical Logic	Definable combinatorics with dense linear orders	Shukla H., Jain A., Kuber A.	2020	59	679-701
1013.	IET Image Processing	Higher order PDE based model for segmenting noisy image	Kumar B.V.R., Halim A., Vijayakrishna R.	2020	14	2597-2609
1014.	Journal of Analysis	Image compression using fractal multiwavelet transform	Akhtar M.N., Guru Prem Prasad M., Kapoor G.P.	2020	28	769-789
1015.	Random Operators and Stochastic Equations	Stochastic PDEs in S' for SDEs driven by Lévy noise	Bhar S., Bhaskaran R., Sarkar B.	2020	28	217-226
1016.	Bulletin des Sciences Mathématiques	Bounded point evaluation for a finitely multicyclic commuting tuple of operators	Trivedi S.	2020	162	-
1017.	Journal of Elasticity	Indentation of a Periodically Layered, Planar, Elastic Half-Space	Sachan D., Sharma I., Muthukumar T.	2020	141	-
1018.	Communications in Statistics: Simulation and Computation	Weighted bivariate geometric distribution: Simulation and estimation	Najarzadegan H., Alamatsaz M.H., Kazemi I., Kundu D.	2020	49	2419-2443
1019.	Journal of Algebra	Deformations of associative Rota-Baxter operators	Das A.	2020	560	144-180

1020.	Mathematics	A generator of bivariate distributions: Properties, estimation, and applications	Franco M., Vivo J.-M., Kundu D.	2020	8	1-30
1021.	Nonlinear Analysis, Theory, Methods and Applications	Bourgain-Brezis-Mironescu domains	Bal K., Mohanta K., Roy P.	2020	199	-
1022.	Journal of Pure and Applied Algebra	Projective normality of torus quotients of flag varieties	Nayek A., Pattanayak S.K., Jindal S.	2020	224	-
1023.	Journal of Algebra and its Applications	Torus quotient of Richardson varieties in orthogonal and symplectic grassmannians	Nayek A., Pattanayak S.K.	2020	19	-
1024.	Computers and Mathematics with Applications	A TV-L2-H-1 PDE model for effective denoising	Halim A., Kumar B.V.R.	2020	80	2176-2193
1025.	Mathematical biosciences and engineering : MBE	Extended SEIQR type model for COVID-19 epidemic and data analysis	Sharma S., Volpert V., Banerjee M.	2020	17	7562-7604
1026.	Selecta Mathematica, New Series	Control theorem and functional equation of Selmer groups over p-adic Lie extensions	Jha S., Ochiai T.	2020	26	-
1027.	Reliability Engineering and System Safety	A generalized Freund bivariate model for a two-component load sharing system	Franco M., Vivo J.-M., Kundu D.	2020	203	-
1028.	Ricerche di Matematica	A safe harbor can protect an endangered species from its predators	Banerjee M., Kooi B.W., Venturino E.	2020	69	413-436
1029.	Sankhya B	On a General Class of Discrete	Kundu D.	2020	82	270-304

		Bivariate Distributions				
1030.	Mathematical Medicine and Biology	Stochastic intracellular regulation can remove oscillations in a model of tissue growth	Banerjee M., Volpert V.	2020	37	551-568
1031.	Monatshefte für Mathematik	On eigenvalue problems related to the laplacian in a class of doubly connected domains	Verma S., Santhanam G.	2020	193	879-899
1032.	Journal of Homotopy and Related Structures	Note on Toda brackets	Basu S., Blanc D., Sen D.	2020	15	495-510
1033.	Journal of Functional Analysis	Dirichlet-type spaces on the unit ball and joint 2-isometries	Chavan S., Gupta R., Ramiz Reza M.	2020	279	-
1034.	Journal of the Royal Statistical Society. Series B: Statistical Methodology	Estimating densities with non- linear support by using Fisher– Gaussian kernels	Mukhopadhyay M., Li D., Dunson D.B.	2020	82	1249-1271
1035.	Proceedings of the Indian Academy of Sciences: Mathematical Sciences	Professor C R Rao's contributions in statistical signal processing and its long-term implications	Kundu D.	2020	130	-
1036.	Journal of Pseudo- Differential Operators and Applications	Sharp weighted estimates for multi-linear Calderón–Zygmund operators on non-homogeneous spaces	Ghosh A., Bhojak A., Mohanty P., Shrivastava S.	2020	11	1833-1867
1037.	Scandinavian Journal of Statistics	A study on the least squares estimator of multivariate isotonic regression function	Bagchi P., Sankar Dhar S.	2020	47	1192-1221
1038.	Proceedings of the Indian	Upper bound for the first nonzero eigenvalue related to the p-	Verma S.	2020	130	-

	Academy of Sciences: Mathematical Sciences	Laplacian				
1039.	Proceedings of the Indian Academy of Sciences: Mathematical Sciences	Gerstenhaber algebra structure on the cohomology of a hom-associative algebra	Das A.	2020	130	-
1040.	Applied Mathematical Modelling	Allee effect in prey's growth reduces the dynamical complexity in prey-predator model with generalist predator	Sen D., Ghorai S., Sharma S., Banerjee M.	2021	91	768-790
1041.	Molecular Neurobiology	Trehalose Ameliorates Seizure Susceptibility in Lafora Disease Mouse Models by Suppressing Neuroinflammation and Endoplasmic Reticulum Stress	Sinha P., Verma B., Ganesh S.	2021	58	1088-1101
1042.	Journal of Statistical Theory and Practice	A Cure Rate Model for Exponentially Distributed Lifetimes with Competing Risks	Pal A., Mondal S., Kundu D.	2021	15	-
1043.	Journal of Statistical Theory and Practice	Goodness of Fit in Nonparametric Regression Modelling	Shalabh, Dhar S.S.	2021	15	-
1044.	International Journal of Mathematics	On the torus quotients of schubert varieties	Bonala N.C., Pattanayak S.K.	2021	32	-
1045.	Journal of Elasticity	Null Lagrangians in Cosserat Elasticity	Sharma B.L., Basak N.	2021	143	337-358
1046.	International Journal of Mathematics	Representations and classification of the compact quantum groups $U_q(2)$ for complex deformation parameters	Guin S., Saurabh B.	2021	32	-

1047.	Canadian Mathematical Bulletin	A Non-abelian, Non-Sidon, Completely Bounded Set	Hare K.E., Mohanty P.	2021	64	1-7
1048.	Bulletin of the London Mathematical Society	Heisenberg uniqueness pairs for the hyperbola	Giri D.K., Rawat R.	2021	53	16-25
1049.	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	Analysis of hydrostatic rough thrust bearing lubricated with Rabinowitsch fluid considering fluid inertia in supply region	Singh U.P., Sinha P., Kumar M.	2021	235	386-395
1050.	Communications in Nonlinear Science and Numerical Simulation	Spatiotemporal pattern formation in 2D prey-predator system with nonlocal intraspecific competition	Pal S., Petrovskii S., Ghorai S., Banerjee M.	2021	93	-
1051.	Chaos, Solitons and Fractals	Memory effect on Bazykin's prey-predator model: Stability and bifurcation analysis	Ghosh U., Pal S., Banerjee M.	2021	143	-
1052.	Zeitschrift für Angewandte Mathematik und Physik	Null Lagrangians in linear theories of micropolar type and few other generalizations of elasticity	Basak N., Sharma B.L.	2021	72	-
1053.	Semigroup Forum	Free product on semihypergroups	Bandyopadhyay C.	2021	102	28-47
1054.	Mathematics	Nonlocal reaction–diffusion models of heterogeneous wealth distribution	Banerjee M., Petrovskii S.V., Volpert V.	2021	9	1-18
1055.	Multidimensional Systems and Signal Processing	An efficient methodology to estimate the parameters of a two-dimensional chirp signal model	Grover R., Kundu D., Mitra A.	2021	32	49-75

1056.	Journal of Dynamical and Control Systems	Smooth Invariant Manifolds for Differential Equations with Infinite Delay	Singh L., Bahuguna D.	2021	27	107-132
1057.	Nonlinear Dynamics	Relaxation oscillation and canard explosion in a slow-fast predator-prey model with Beddington-DeAngelis functional response	Saha T., Pal P.J., Banerjee M.	2021	103	1195-1217
1058.	Journal of Differential Equations	Extremals for the singular Moser-Trudinger inequality via n-harmonic transplantation	Csató G., Nguyen V.H., Roy P.	2021	270	843-882
1059.	Annales de l'Institut Fourier	p^r -Selmer companion modular forms	S. Jha, D. Majumdar, S. Shekhar	2021	71-1	53-87
1060.	Ann. Mat. Pura Appl. (4) 200	Jan Taylor spectrum approach to Brownian-type operators with quasinormal entry	Chavan, Sameer; Jabłoński, Zenon Jan; Jung, Il Bong; Stochel	2021	no. 3	881-922
1061.	Statistics	On Liu-Type Biased Estimators in Measurement Error Models	A.K.Md.E. Saleh and Shalabh	2020	54	1171-1213
1062.	International Journal of Biostatistics	Seemingly Unrelated Regression with Measurement Error: Estimation via MCMC and Mean Field Variational Bayes Approximation	George Bresson, Anoop Chaturvedi, Mohammad Arshad Rahman and Shalabh	2021	17	75-97
1063.	Journal of Computational and Graphical Statistics	Assessing and Visualizing Simultaneous Simulation Error	Robertson, N. and Flegal, J. M. and Vats, D, Jones, G. L.	2021	30	324-334
1064.	Engineering Computations, doi.org/10.1108/EC-03-2020-0163	reconstruction of the parameter in parabolic partial differential equations using Haar wavelet method	Gopal Priyadarshi and B.V. Rathish Kumar	2020		
1065.	Mathematical Methods in the	Parameter Identification in Multidimensional Hyperbolic	Gopal Priyadarshi and B.V. Rathish	2021		

	Applied Sciences, doi.org/10.1002/mma.7336	Partial Differential Equations using Wavelet Collocation Method	Kumar			
1066.	ZAMP	Effect of insoluble surfactants on the motion of Reiner–Rivlin fluid sphere in a spherical container with Newtonian fluid	Shweta Raturi and BVR Kumar	2021		
1067.	New York Journal of Mathematics	Acylindrical hyperbolicity of subgroups	Abhijit Pal & Rahul Pandey	2020	26	1213-1231
1068.	Geometriae Dedicata	Height in Splittings of Relatively Hyperbolic groups	Abhijit Pal	2021	213	121-135
1069.	Mathematical Modelling of Natural Phenomena	Coronavirus - Scientific insights and social aspects	V. Volpert, M. Banerjee, A. d'Onofrio, T. Lipniacki, S. Petrovskii, V.C. Tran	2020	15	E2
1070.	Mathematical Modelling of Natural Phenomena	On a quarantine model of Coronavirus infection and data analysis	V. Volpert, M. Banerjee, S. Petrovskii	2020	15	24
1071.	Mathematical Modelling of Natural Phenomena	Immuno-epidemiological model of two-stage epidemic growth	M. Banerjee, A. Tokarev, V. Volpert,	2020	15	27
1072.	Bulletin of Mathematical Biology	Modelling the effect of incubation and latent periods on the dynamics of vector borne plant-virus diseases	F. Al Basir, S. Adhurya, M. Banerjee, E. Venturino, S. Ray	2020	82(7)	1-22
1073.	SIAM Journal of Scientific Computing	Trefftz finite elements on curvilinear polygons	A. Anand, J. O'vall, S. Reynolds and S. Weisser	2020	Volume 42, Issue 2,	A1289-A1316
1074.	Mediterr. J. Math.	Multiplicity of solution for a quasilinear equation with singular nonlinearity	Bal, Kaushik and Garain, Prashanta	2020	4	Paper No. 100, 20 pp

1075.	Nonlinear Anal.	Bourgain-Brezis-Mironescu domains	. Bal, Kaushik; Mohanta, Kaushik; Roy, Prosenjit	2020		10 pp
1076.	Manuscripta Math	Weighted and anisotropic Sobolev inequality with extremal	Bal, K., Garain, P.	2021		10pp
1077.	Journal of Pure and Applied Algebra	On Schur multiplier and projective representations of Heisenberg groups	Hatui S., Singla P.	2021	225	-

Mechanical Engineering

1078.	Journal of Physical Chemistry C	Adsorption Preference of HF over Ethylene Carbonate Leads to Dominant Presence of Fluoride Products in LiFePO ₄ Cathode-Electrolyte Interface in Li-Ion Batteries	Bhandari A., Bhattacharya J., Pala R.G.S.	2020	124	9170-9177
1079.	Carbon	Comparing quantum, molecular and continuum models for graphene at large deformations	Mokhalingam A., Ghaffari R., Sauer R.A., Gupta S.S.	2020	159	478-494
1080.	Tribology - Materials, Surfaces and Interfaces	Tribological analysis of tip-cantilever made of SU-8, talc and PFPE composite	Katiyar J.K., Sinha S.K., Hirayama T., Kumar A.	2020	14	92-101
1081.	Journal of Energy Resources Technology, Transactions of the ASME	Effect of fuel injection pressure and engine speed on performance, emissions, combustion, and particulate investigations of gasohols fuelled gasoline direct injection engine	Sharma N., Agarwal A.K.	2020	142	-
1082.	Journal of the Acoustical Society of America	Modelling of a hydroacoustic projector to produce low frequency sound	V. S. S., Tiwari N.	2020	147	2682-2693
1083.	Physical Review E	Mechanics of reversible wrinkling in a soft dielectric elastomer	Srivastava A.K., Basu S.	2020	101	-
1084.	Zeitschrift für Angewandte	Transmission of waves across atomic step discontinuities in	Sharma B.L.	2020	71	-

	Mathematik und Physik	discrete nanoribbon structures				
1085.	Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences	Wave scattering on lattice structures involving an array of cracks	Maurya G., Sharma B.L.	2020	476	-
1086.	Fuel Cells	Impact of Graphite on Thermomechanical, Mechanical, Thermal, Electrical Properties, and Thermal Conductivity of HDPE/Copper Composites	Banerjee S., Pattnayek S., Kumar R., Kar K.K.	2020	20	116-130
1087.	International Journal of Machine Tools and Manufacture	Reducing overcut in electrochemical micromachining process by altering the energy of voltage pulse using sinusoidal and triangular waveform	Patel D.S., Sharma V., Jain V.K., Ramkumar J.	2020	151	-
1088.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Manipulation of Taylor bubble flow in a magneto-fluidic system	Shah R.K., Khandekar S.	2020	593	-
1089.	International Journal of Solids and Structures	Dynamics of variable length geometrically exact beams in three-dimensions	Singh N., Sharma I., Gupta S.S.	2020	191-192	614-627
1090.	Atmospheric Research	Study on CCN activity of fission product aerosols (CsI and CsOH) and their effect on size and other properties	Mishra G., Tripathi S.N., Saud T., Joshi M., Khan A., Sapra B.K.	2020	236	-
1091.	Industrial and Engineering Chemistry	Synthesis of a lightweight nanocomposite based on polyaniline 3D hollow spheres	Singh S.K., Akhtar M.J., Kar K.K.	2020	59	9076-9084

	Research	integrated milled carbon fibers for efficient X-band microwave absorption				
1092.	ACS Omega	Fe ₃ O ₄ -Functionalized Boron Nitride Nanosheets as Novel Adsorbents for Removal of Arsenic(III) from Contaminated Water	Bangari R.S., Yadav V.K., Singh J.K., Sinha N.	2020	5	10301-10314
1093.	Research in Nondestructive Evaluation	Total Variation (TV) l1 Norm Minimization Based Limited Data X-ray CT Image Reconstruction	Sarkar S., Wahi P., Munshi P.	2020	31	164-186
1094.	SN Applied Sciences	Optimization of process parameters during WEDM of EN-42 spring steel	Prasad L., Upreti M., Yadav A., Patel R.V., Kumar V., Kumar A.	2020	2	-
1095.	Physics of Fluids	Coalescence of vertically aligned drops over a superhydrophobic surface	Somwanshi P.M., Muralidhar K., Khandekar S.	2020	32	-
1096.	Physics of Fluids	Coalescence of drops on the free-surface of a liquid pool at elevated temperatures	Kirar P.K., Alvarenga K., Kolhe P., Biswas G., Sahu K.C.	2020	32	052103-1 – 052103-10
1097.	CIRP Journal of Manufacturing Science and Technology	Validation of a hardware-in-the-loop simulator for investigating and actively damping regenerative chatter in orthogonal cutting	Sahu G.N., Vashisht S., Wahi P., Law M.	2020	29	115-129
1098.	Progress in Nuclear Energy	Optimization of controlling parameters of plasma torch aerosol generator and characteristics of synthesized metal oxide aerosols in context of NAF program	Dwivedi A.K., Kumar M., Mishra G., Joshi M., Khan A., Tiwari N., Kumar S., Saud T., Sapra B.K., Tripathi S.N.	2020	123	-
1099.	Agricultural Water Management	Spatio-temporal variability of soil moisture in a cropped agricultural plot within the Ganga Basin, India	Yetbarek E., Ojha R.	2020	234	-

1100.	Geophysical Research Letters	Deep Learning Emulation of Subgrid-Scale Processes in Turbulent Shear Flows	Pal A.	2020	47	-
1101.	Chemical Engineering Journal	Arsenic remediation onto redox and photo-catalytic/electrocatalytic Mn-Al-Fe impregnated rGO: Sustainable aspects of sludge as supercapacitor	Penke Y.K., Yadav A.K., Sinha P., Malik I., Ramkumar J., Kar K.K.	2020	390	-
1102.	International Journal of Energy Research	Criticality of incorporating explicit in-situ measurement of temperature-dependent heat generation for accurate design of thermal management system for Li-ion battery pack	Jindal P., Bhattacharya J.	2020	44	6023-6034
1103.	Engineering Optimization	Displacement transmissibility based system identification for polydimethylsiloxane integrating a combination of mechanical modelling with evolutionary multi-objective optimization	Sharma A.K., Datta R., Agarwal S., Bhattacharya B.	2020	52	1037-1051
1104.	Physical Review Fluids	Shape evolution of compound droplet in combined presence of electric field and extensional flow	Santra S., Panigrahi D.P., Das S., Chakraborty S.	2020	5	-
1105.	Journal of Environmental Chemical Engineering	Variable air gap membrane distillation for hybrid solar desalination	Shirsath G.B., Muralidhar K., Pala R.G.S.	2020	8	-
1106.	International Journal of Advanced Manufacturing Technology	Parametric investigation and characterization of laser directed energy deposited copper-nickel graded layers	Yadav S., Jinoop A.N., Sinha N., Paul C.P., Bindra K.S.	2020	108	3779-3791
1107.	International Journal of Advanced	Multi-spark numerical simulation of the micro-EDM process: an extension of a single-spark	Singh M., Saxena P., Ramkumar J., Rao R.V.	2020	108	2701-2715

	Manufacturing Technology	numerical study				
1108.	Journal of Manufacturing and Materials Processing	Design of chatter-resistant damped boring bars using a receptance coupling approach	Yadav A., Talaviya D., Bansal A., Law M.	2020	4	-
1109.	Journal of Traffic and Transportation Engineering (English Edition)	Development of port fuel injected methanol (M85)-fuelled two-wheeler for sustainable transport	Agarwal T., Singh A.P., Agarwal A.K.	2020	7	298-311
1110.	IEEE Sensors Journal	Real-Time Detection of Actual and Early Gait Events during Level-Ground and Ramp Walking	Sahoo S., Saboo M., Pratihari D.K., Mukhopadhyay S.	2020	20	8128-8136
1111.	Journal of Applied Polymer Science	Study of matrix–filler interaction through correlations between structural and viscoelastic properties of carbonous-filler/polymer-matrix composites	Pandey A.K., Pal T., Sharma R., Kar K.K.	2020	137	-
1112.	International Journal of Hydrogen Energy	Particulate characteristics of laser ignited hydrogen enriched compressed natural gas engine	Singh A.P., Kumar D., Agarwal A.K.	2020	45	18021-18031
1113.	Materials and Manufacturing Processes	Optimization of process parameters in nano-finishing of Co-Cr-Mo alloy knee joint	Nagdeve L., Jain V.K., Ramkumar J.	2020	35	985-992
1114.	International Journal of Hydrogen Energy	Biowaste derived activated carbon electrocatalyst for oxygen reduction reaction: Effect of chemical activation	Tyagi A., Banerjee S., Singh S., Kar K.K.	2020	45	16930-16943
1115.	Medico-Legal Update	Melanoma skin cancer classification using deep learning convolutional neural network	Mohan Kumar S., Ram Kumar J., Gopalakrishnan K.	2020	20	351-355
1116.	Environmental Science: Processes and	Toxicity of exhaust particulates and gaseous emissions from gasohol (ethanol blended	Agarwal A.K., Singh A.P., Gupta T., Agarwal R.A.,	2020	22	1540-1553

	Impacts	gasoline)-fuelled spark ignition engines	Sharma N., Pandey S.K., Ateeq B.			
1117.	Applied Optics	Digital holographic interferometry investigation of liquid hydrocarbon vapor cloud above a circular well	Shukla D., Panigarh P.K.	2020	59	5851-5863
1118.	Solar Energy	A novel approach for modelling fluid flow and heat transfer in an Open Volumetric Air Receiver using ANSYS-FLUENT	Sharma P., Chandra L., Ghoshdastidar P.S., Shekhar R.	2020	204	246-255
1119.	Renewable Energy	A novel stationary concentrator to enhance solar intensity with absorber-only single axis tracking	Sharma M.K., Bhattacharya J.	2020	154	976-985
1120.	Nuclear Engineering and Design	Design of NDI-SMC based robust hybrid nonlinear controller for load following operation in pressurized water reactor	Yadav D.K., Gupta A., Munshi P.	2020	363	-
1121.	Journal of Colloid and Interface Science	Atomically dispersed Ni/NixSy anchored on doped mesoporous networked carbon framework: Boosting the ORR performance in alkaline and acidic media	Tyagi A., Kar K.K., Yokoi H.	2020	571	285-296
1122.	International Journal of Thermal Sciences	A computational study on air entrapment and its effect on convective heat transfer during droplet impact on a substrate	Kumar R., Shukla R.K., Kumar A., Kumar A.	2020	153	106363
1123.	Journal of Applied Physics	Suppressing internal convection of a droplet using confinement during protein crystallization	Pradhan T.K., Panigrahi P.K.	2020	128	-
1124.	Langmuir	Investigating the Effect of Antibody-Antigen Reactions on the Internal Convection in a Sessile Droplet via Microparticle Image Velocimetry and DLVO Analysis	Rathaur V.S., Kumar S., Panigrahi P.K., Panda S.	2020	36	8826-8838
1125.	Journal of	Effect of Surface Inclination on	Bhanawat A., Yadav	2020	12	-

	Thermal Science and Engineering Applications	Filmwise Condensation Heat Transfer during Flow of Steam-Air Mixtures	M.K., Punetha M., Khandekar S., Sharma P.K.			
1126.	Journal of Thermal Science and Engineering Applications	Computer Simulation of Mixed Convection of Alumina-Deionized Water Nanofluid over Four In-Line Electronic Chips Embedded in One Wall of a Vertical Rectangular Channel	Ramu N., Ghoshdastidar P.S.	2020	12	-
1127.	Physics of Fluids	Flow field induced by a dielectric barrier discharge plasma actuator analyzed with bi-orthogonal decomposition	Mishra B.K., Panigrahi P.K.	2020	32	-
1128.	Journal of Energy Resources Technology, Transactions of the ASME	Fuel Injection Strategy for Utilization of Mineral Diesel-Methanol Blend in a Common Rail Direct Injection Engine	Singh A.P., Sharma N., Kumar V., Satsangi D.P., Agarwal A.K.	2020	142	-
1129.	Journal of Energy Resources Technology, Transactions of the ASME	Biodiesel Spray Characteristics and Their Effect on Engine Combustion and Particulate Emissions	Singh A.P., Agarwal A.K.	2020	142	-
1130.	Journal of Engineering Mathematics	Discrete scattering by two staggered semi-infinite defects: reduction of matrix Wiener–Hopf problem	Sharma B.L.	2020	123	41-87
1131.	Nonlinear Dynamics	Complete dimensional collapse in the continuum limit of a delayed SEIQR network model with separable distributed infectivity	Vyasarayani C.P., Chatterjee A.	2020	101	1653-1665
1132.	Mathematics and Mechanics	On equilibrium equations and their perturbations using three	Saxena P., Lal Sharma B.	2020	25	1589-1609

	of Solids	different variational formulations of nonlinear electroelastostatics				
1133.	Thermal Science and Engineering Progress	Computational prediction of significant efficiency gain through multi-tank modular heat storage for solar thermal systems with variable-temperature input profile	Singh M., Sharma M.K., Bhattacharya J.	2020	18	-
1134.	Robotica	Kinematics-based end-effector path control of a mobile manipulator system on an uneven terrain using a two-stage Support Vector Machine	Jangid H., Jain S., Teka B., Raja R., Dutta A.	2020	38	1415-1433
1135.	Journal of Elasticity	Growth and Non-Metricity in Föppl-von Kármán Shells	Roychowdhury A., Gupta A.	2020	140	337-348
1136.	Journal of Materials Processing Technology	Micro-texturing on free-form surfaces using flexible-electrode through-mask electrochemical micromachining	Singh Patel D., Agrawal V., Ramkumar J., Jain V.K., Singh G.	2020	282	-
1137.	Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy	Flow structures and thermal field with modulated jet near the semi-circular leading edge	Sarkar S.	2020	234	594-610
1138.	Solar Energy	Linking spectral, thermal and weather effects to predict location-specific deviation from the rated power of a PV panel	Chintapalli N., Sharma M.K., Bhattacharya J.	2020	208	115-123
1139.	FUEL	Utilization of primary alcohols in dual-fuel injection mode in a gasoline direct injection engine	Kalwar A., Singh A.P., Agarwal A.K.	2020	276	-
1140.	FUEL	Effect of spark timing on laser ignition and spark ignition modes in a hydrogen enriched compressed natural gas fuelled	Prasad R.K., Mustafi N., Agarwal A.K.	2020	276	-

		engine				
1141.	New Journal of Chemistry	Ammonolysis synthesis of nickel molybdenum nitride nanostructures for high-performance asymmetric supercapacitors	Kumar R., Bhuvana T., Sharma A.	2020	44	14067-14074
1142.	Physics of Fluids	Electric field induced dynamics of viscoplastic droplets in shear flow	Nath B., Borthakur M.P., Biswas G.	2020	32	092110-1 – 92110 -16
1143.	Physics of Fluids	Freely decaying turbulence in a finite domain at finite Reynolds number	Anas M., Joshi P., Verma M.K.	2020	32	-
1144.	Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine	Numerical modeling of therapeutic lens drug delivery in the anterior human eye for the treatment of primary open-angle glaucoma	Bhandari A., Bansal A., Sinha N.	2020	234	942-954
1145.	Infrared Physics and Technology	Infrared imaging based machine vision system to determine transient shape of isotherms in submerged arc welding	Sarkar S.S., Das A., Paul S., Ghosh A., Mali K., Sarkar R., Kumar A.	2020	109	03410
1146.	International Journal of Heat and Mass Transfer	Role of impinging powder particles on melt pool hydrodynamics, thermal behaviour and microstructure in laser-assisted DED process: A particle-scale DEM – CFD – CA approach	Aggarwal A., Chouhan A., Patel S., Yadav D.K., Kumar A., Vinod A.R., Prashanth K.G., Gurao N.P.	2020	158	119989
1147.	Journal of Elasticity	Indentation of a Periodically Layered, Planar, Elastic Half-Space	Sachan D., Sharma I., Muthukumar T.	2020	141	-
1148.	International Journal of Adhesion and Adhesives	Plasma-assisted surface alteration of industrial polymers for improved adhesive bonding	Sundriyal P., Pandey M., Bhattacharya S.	2020	101	-

1149.	Inverse Problems in Science and Engineering	A combined neural network and simulated annealing based inverse technique to optimize the heat source control parameters in heat treatment furnaces	Yadav R., Tripathi S., Asati S., Das M.K.	2020	28	1265-1286
1150.	IEEE Transactions on Control of Network Systems	Communication-Delay-Dependent Rendezvous with Possible Negative Controller Gain in Cyclic Pursuit	De S., Sahoo S.R., Wahi P.	2020	7	1069-1079
1151.	Medico-Legal Update	Melanoma skin cancer classification using deep learning convolutional neural network	Mohan Kumar S., Ram Kumar J., Gopalakrishnan K.	2020	20	351-355
1152.	Carbon	Keratin-derived functional carbon with superior charge storage and transport for high-performance supercapacitors	Sinha P., Yadav A., Tyagi A., Paik P., Yokoi H., Naskar A.K., Kuila T., Kar K.K.	2020	168	419-438
1153.	Wear	Scratch and wear resistance of additive manufactured 316L stainless steel sample fabricated by laser powder bed fusion technique	Upadhyay R.K., Kumar A.	2020	458-459	203437
1154.	Fuel	Gaseous emissions (regulated and unregulated) and particulate characteristics of a medium-duty CRDI transportation diesel engine fueled with diesel-alcohol blends	Kumar V., Singh A.P., Agarwal A.K.	2020	278	-
1155.	Heat Transfer Engineering	Neural-Network-Assisted Optimization of Rectangular Channels with Intersecting Ribs for Enhanced Thermal Performance	Afzal A., Chung H., Muralidhar K., Hee Cho H.	2020	41	1609-1625
1156.	Proceedings of the Royal Society A:	Capillary imbibition of non-Newtonian fluids in a microfluidic channel: Analysis and	Gorthi S.R., Meher S.K., Biswas G., Mondal P.K.	2020	476	20200496-1 – 20200496-

	Mathematical, Physical and Engineering Sciences	experiments: Capillary imbibition				14
1157.	Modelling and Simulation in Materials Science and Engineering	Equilibrium shape of misfitting precipitates with anisotropic elasticity and anisotropic interfacial energy	Joshi T., Arora R., Basak A., Gupta A.	2020	28	-
1158.	Journal of Energy Resources Technology, Transactions of the ASME	Particulate morphology characterization of butanol-gasoline blend fueled spark-ignition direct injection engine	Sharma N., Agarwal A.K.	2020	142	-
1159.	Journal of Energy Storage	Modeling of heat transfer and fluid flow in epsom salt ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$) dissociation for thermochemical energy storage	Kharbanda J.S., Yadav S.K., Soni V., Kumar A.	2020	31	101712
1160.	Computer Methods in Applied Mechanics and Engineering	Isogeometric continuity constraints for multi-patch shells governed by fourth-order deformation and phase field models	Paul K., Zimmermann C., Duong T.X., Sauer R.A.	2020	370	-
1161.	Materials Chemistry and Physics	Enhanced tribological performances of zinc oxide/MWCNTs hybrid nanomaterials as the effective lubricant additive in engine oil	Vardhaman B.S.A., Amarnath M., Ramkumar J., Mondal K.	2020	253	-
1162.	Soft Computing	Multi-sensor data fusion for accurate surface modeling	Singh M.K., Dutta A., Venkatesh K.S.	2020	24	14449-14462
1163.	Journal of Vibration Engineering and Technologies	A Parametric Study Analysing the Effect of Bolster Suspension Parameters on the Carbody Dynamic Response in a Freight Wagon Fitted with Three-Piece	Pandey M., Bhattacharya B.	2020	8	625-641

		Bogie				
1164.	Applied Thermal Engineering	Dropwise condensation from moist air over a hydrophobic metallic substrate	Baghel V., Sikarwar B.S., Muralidhar K.	2020	181	-
1165.	Physical Review D	Pairs of surface wave packets with zero-sum energy in the Hawking radiation analog	Guha A., Heifetz E., Gupta A.	2020	102	-
1166.	Materials Chemistry and Physics	Enhanced thermoelectric performance of n-type Bi ₂ Te ₃ alloyed with low cost and highly abundant sulfur	Malik I., Srivastava T., Surthi K.K., Gayner C., Kar K.K.	2020	255	-
1167.	Applied Energy	Evaluation of comparative engine combustion, performance and emission characteristics of low temperature combustion (PCCI and RCCI) modes	Singh A.P., Kumar V., Agarwal A.K.	2020	278	-
1168.	Applied Physics Letters	Ashok chakra-structured meta-structure as a perfect sound absorber for broadband low-frequency sound	Bhattacharya S., Kumar S., Singh S.K., Bhushan P., Sahu M., Prakash O.	2020	117	-
1169.	Frontiers in Psychology	Exploring the Thermal Signature of Guilt, Shame, and Remorse	Bhushan B., Basu S., Panigrahi P.K., Dutta S.	2020	11	-
1170.	Applied Physics A: Materials Science and Processing	A computational study of porosity formation mechanism, flow characteristics and solidification microstructure in the L-DED process	Chouhan A., Aggarwal A., Kumar A.	2020	126	106363
1171.	Journal of Non-Newtonian Fluid Mechanics	Numerical simulation of blood flow modeled as a fluid-particulate mixture	Chandran K., Dalal I.S., Tatsumi K., Muralidhar K.	2020	285	-
1172.	Journal of Structural Geology	Control of planar fabrics on the development of tensile damage zones under high-speed	Jacob B.J., Misra S., Parameswaran V., Mandal N.	2020	140	-

		deformation: An experimental study with granite and gneiss				
1173.	Journal of Magnetism and Magnetic Materials	Magnetic suppression of the coffee ring effect	Saroj S.K., Panigrahi P.K.	2020	513	-
1174.	CIRP Journal of Manufacturing Science and Technology	Evaluating tool point dynamics using output-only modal analysis with mass-change methods	Gupta P., Law M., Mukhopadhyay S.	2020	31	251-264
1175.	Chemical Engineering Journal	Shape controlled and structurally stabilized Co-doped olivine lithium phosphate cathodes for high voltage conventional, thin and flexible Li-ion batteries	Surthi K.K., Kar K.K., Janakarajan R.	2020	399	-
1176.	Composite Structures	An augmented cohesive element for coarse meshes in delamination analysis of composites	Mukhopadhyay S., Hallett S.R.	2020	254	-
1177.	Physica D: Nonlinear Phenomena	New approximations, and policy implications, from a delayed dynamic model of a fast pandemic	Vyasarayani C.P., Chatterjee A.	2020	414	-
1178.	Annals of Nuclear Energy	Linear stability analysis of RELAP5 two-fluid model in nuclear reactor safety results	Saraswat S.P., Munshi P., Allison C.	2020	149	-
1179.	Journal of Controlled Release	Effect of aging on heat transfer, fluid flow and drug transport in anterior human eye: A computational study	Bhandari A., Bansal A., Sinha N.	2020	328	286-303
1180.	Physics of Fluids	Unsteady flow past a square cylinder placed close to a free surface	Karmakar A., Saha A.K.	2020	32	-
1181.	Scientific Reports	Exploring the dynamics of hourglass shaped lattice metastructures	Gupta V., Adhikari S., Bhattacharya B.	2020	10	-
1182.	IEEE Sensors	Shape Memory Alloy-Based	Jain A.K., Sharma	2020	20	14209-

	Journal	Sensor for Two-Phase Flow Detection	A.K., Khandekar S., Bhattacharya B.			14217
1183.	International Journal of Advanced Manufacturing Technology	Geometric models of non-standard serrated end mills	Bari P., Law M., Wahi P.	2020	111	3319-3342
1184.	Surfaces and Interfaces	Mechanical Degradation of 3D Printed PLA in Simulated Marine Environment	Upadhyay R.K., Mishra A.K., Kumar A.	2020	21	100778
1185.	Materialia	Selective laser melting of high-strength, low-modulus Ti–35Nb–7Zr–5Ta alloy	Ummethala R., Karamched P.S., Rathinavelu S., Singh N., Aggarwal A., Sun K., Ivanov E., Kollo L., Okulov I., Eckert J., Prashanth K.G.	2020	14	-
1186.	Journal of Manufacturing Processes	Finish turning of hardened bearing steel using textured PcBN tools	Law M., Karthik R., Sharma S., Ramkumar J.	2020	60	144-161
1187.	Mechanics of Materials	Exploring subtle features of yield surfaces of porous, ductile solids through unit cell simulations	Chouksey M., Keralavarma S.M., Basu S.	2020	151	-
1188.	Optical Fiber Technology	Semi-analytical approach for calculation of intercore crosstalk in multicore fibers	Joshi A., Sharma I., Krishnamurthy P.K.	2020	60	-
1189.	Composites Part B: Engineering	Al ³⁺ -doped 3d-transitional metal (Mn/Cu) ferrite impregnated rGO for PEC water-splitting/supercapacitor electrode with oxygen vacancies and surface intercalation aspects	Penke Y.K., Sinha P., Yadav A.K., Ramkumar J., Kar K.K.	2020	202	-
1190.	Journal of Energy Resources	Microscopic spray characteristics of biodiesels derived from Karanja, Jatropha, and waste	Patel C., Hwang J., Bae C., Agarwal R.A., Agarwal A.K.	2020	142	-

	Technology, Transactions of the ASME	cooking oils				
1191.	Journal of Energy Resources Technology, Transactions of the ASME	Split injection strategies for biodiesel-Fueled premixed charge compression ignition combustion engine—Part II: Particulate studies	Singh A.P., Agarwal A.K.	2020	142	-
1192.	Journal of Energy Resources Technology, Transactions of the ASME	Split injection strategies for biodiesel-Fueled premixed charge compression ignition combustion engine—Part I: Combustion, performance, and emission studies	Singh A.P., Agarwal A.K.	2020	142	-
1193.	Journal of Energy Resources Technology, Transactions of the ASME	Effect of fuel injection pressure and premixed ratio on mineral diesel-methanol fueled reactivity controlled compression ignition mode combustion engine	Singh A.P., Sharma N., Satsangi D.P., Agarwal A.K.	2020	142	-
1194.	Thermal Science and Engineering Progress	Numerical and experimental analysis of rapid solidification considering undercooling effect during water droplet impact on a substrate	Singh D., Kumar A.	2020	20	100722
1195.	Polymer Composites	Comparative study of the influence of graphene nanoplatelets filler on the mechanical and tribological behavior of glass fabric- reinforced epoxy composites	Kumar S., Singh K.K., Ramkumar J.	2020	41	5403-5417
1196.	Renewable Energy	Solar tower on an uneven terrain: methodology and case study	Agarwal N., Raj M., Bhattacharya J.	2020	161	543-558
1197.	Scientific Reports	Textile-based supercapacitors for flexible and wearable electronic	Sundriyal P., Bhattacharya S.	2020	10	-

		applications				
1198.	Applied Mathematics and Computation	Basis functions for residual stresses	Tiwari S., Chatterjee A.	2020	386	-
1199.	Chemical Engineering Journal	One-dimensional lithium ion capacitor in core-shell wire shape construction for wearable applications	Yadav A., Kar K.K.	2020	401	-
1200.	Canadian Journal of Chemical Engineering	Electro-capillary filling in a microchannel under the influence of magnetic and electric fields	Gorthi S.R., Mondal P.K., Biswas G., Sahu K.C.	2021	99	725-741
1201.	Materials Science in Semiconductor Processing	Enhanced He gas detection by V2O5-noble metal (Au, Ag, and Pd) nanocomposite with temperature dependent n- to p-type transition	Chauhan P.S., Mishra A., Bhatt G., Bhattacharya S.	2021	123	-
1202.	European Journal of Mechanics, B/Fluids	The mechanism of vortex bifurcation vis-à-vis axial switching in rectangular synthetic jets	Kumar A., Saha A.K., Panigrahi P.K., Karn A.	2021	86	78-89
1203.	Ultrasonics Sonochemistry	Effect of pearlitic morphology with varying fineness on the cavitation erosion behavior of eutectoid rail steel	Rajput A., Ramkumar J., Mondal K.	2021	71	-
1204.	Renewable and Sustainable Energy Reviews	Real-world automotive emissions: Monitoring methodologies, and control measures	Agarwal A.K., Mustafi N.N.	2021	137	-
1205.	Chemosphere	Insights of arsenic (III/V) adsorption and electrosorption mechanism onto multi synergistic (redox-photoelectrochemical-ROS) aluminum substituted	Penke Y.K., Yadav A.K., Malik I., Tyagi A., Ramkumar J., Kar K.K.	2021	267	-

		copper ferrite impregnated rGO				
1206.	Sensors and Actuators, A: Physical	Exploring the performance of a dielectric elastomer generator through numerical simulations	Srivastava A.K., Basu S.	2021	319	-
1207.	Journal of Elasticity	Null Lagrangians in Cosserat Elasticity	Sharma B.L., Basak N.	2021	143	337-358
1208.	Journal of Fluids Engineering, Transactions of the ASME	Numerical and experimental studies of ballistic compression process in a soft recovery system	Mathur G., Tiwari N., Chaturvedi N.	2021	143	-
1209.	Physical Review Letters	Kinetics of Network Formation and Heterogeneous Dynamics of an Egg White Gel Revealed by Coherent X-Ray Scattering	Begam N., Ragulskaya A., Girelli A., Rahmann H., Chandran S., Westermeier F., Reiser M., Sprung M., Zhang F., Gutt C., Schreiber F.	2021	126	-
1210.	Soft Matter	Experimental and theoretical investigations of methyl orange adsorption using boron nitride nanosheets	Bangari R.S., Yadav A., Sinha N.	2021	17	2640-2651
1211.	Journal of Applied Polymer Science	Superior electrical, mechanical and viscoelastic properties of CNTs coated carbon textile reinforced phenolic composite for high-performance structural applications	Kumar R., Kar K.K., Dasgupta K.	2021	138	-
1212.	International Journal of Engine Research	Performance and emission characteristics of conventional diesel combustion/partially premixed charge compression ignition combustion mode switching of biodiesel-fueled engine	Singh A.P., Agarwal A.K.	2021	22	540-553

1213.	Mechanism and Machine Theory	On topology optimization of large deformation contact-aided shape morphing compliant mechanisms	Kumar P., Sauer R.A., Saxena A.	2021	156	-
1214.	Annals of Nuclear Energy	Characteristics and linear stability analysis of RELAP5 two-fluid model for two-component, two-phase flow	Saraswat S.P., Munshi P., Allison C.	2021	151	-
1215.	Journal of Manufacturing Processes	Investigations into machining accuracy and quality in wire electrochemical micromachining under sinusoidal and triangular voltage pulse condition	Sharma V., Patel D.S., Agrawal V., Jain V.K., Ramkumar J.	2021	62	348-367
1216.	Optik	Numerically investigating the AZO/Cu ₂ O heterojunction solar cell using ZnO/CdS buffer layer	Fentahun D.A., Tyagi A., Kar K.K.	2021	228	-
1217.	International Journal of Multiphase Flow	Hydrodynamics of a completely wetting isolated liquid plug oscillating inside a square capillary tube	Srinivasan V., Rahatgonakar A.M., Khandekar S.	2021	135	-
1218.	Atmospheric Environment	First surface measurement of variation of Cloud Condensation Nuclei (CCN) concentration over the Pristine Himalayan region of Garhwal, Uttarakhand, India	Gautam A.S., Tripathi S.N., Joshi A., Mandariya A.K., Singh K., Mishra G., Kumar S., Ramola R.C.	2021	246	-
1219.	Physical Review Fluids	Dynamics of a compound droplet under the combined influence of electric field and shear flow	Borthakur M.P., Nath B., Biswas G.	2021	6	023603-1 – 023603-18
1220.	Physical Review Fluids	Modified Stokes drift due to resonant interactions between surface waves and corrugated sea floor with and without a mean current	Gupta A., Guha A.	2021	6	-
1221.	Physical Review Materials	Tuning thermal transport in highly cross-linked polymers by bond-induced void engineering	Mukherji D., Singh M.K.	2021	5	-

1222.	Physics of Fluids	A study of two unequal-sized droplets undergoing oblique collision	Chaitanya G.S., Sahu K.C., Biswas G.	2021	33	022110-1 -- 022110-15
1223.	Journal of Tribology	Surface Wear Anisotropy in AlSi10Mg Alloy Sample Fabricated by Selective Laser Melting: Effect of Hatch Style, Scan Rotation and Use of Fresh and Recycled Powder	Mishra A.K., Upadhyay R.K., Kumar A.	2021	143	4047788
1224.	International Journal of Heat and Technology	Thermo-hydraulic performance of square micro pin fins under forced convection	Singh N.R., Onkar S., Ramkumar J.	2021	39	170-178
1225.	Journal of Thermal Science and Engineering Applications	One-dimensional zonal model for the unsteady heat transfer analysis in an open volumetric air receiver	Singh G., Kumar V.D., Chandra L., Shekhar R., Ghoshdastidar P.S.	2021	13	-
1226.	Applied Thermal Engineering	Thermal management of high-power LED module with single-phase liquid jet array	Gatapova E.Y., Sahu G., Khandekar S., Hu R.	2021	184	-
1227.	Acta Geotechnica	A rate-dependent model for sand to predict constitutive response and instability onset	Mukherjee M., Gupta A., Prashant A.	2021	16	93-111
1228.	Journal of Physics and Chemistry of Solids	First principle study on lithium-ion diffusion, electronic and electrochemical properties of cobalt doped lithium metal borates	Surthi K.K., Tyagi A., Kar K.K., Janakarajan R.	2021	148	-
1229.	Renewable Energy	Large eddy simulation of biomass gasification in a bubbling fluidized bed based on the multiphase particle-in-cell method	Gupta S., Choudhary S., Kumar S., De S.	2021	163	1455-1466
1230.	Proceedings of the Combustion	LES of a lifted methanol spray flame series using the sparse Lagrangian MMC approach	Sharma E., De S., Cleary M.J.	2021	38	3399-3407

	Institute					
1231.	International Journal of Heat and Mass Transfer	A methodology to integrate melt pool convection with rapid solidification and undercooling kinetics in laser spot welding	Patel S., Reddy P., Kumar A.	2021	164	120575
1232.	Journal of Nuclear Engineering and Radiation Science	Unequivocally nonconservative results from one method of imperfection quantification in RCC-MR	Kumar A., Chatterjee A.	2021	7	-
1233.	International Journal of Heat and Mass Transfer	Channel segregation during columnar solidification: Relation between mushy zone instability and mush permeability	Kumar A., Založnik M., Combeau H., Lesoult G., Kumar A.	2021	164	120602
1234.	International Journal of Solids and Structures	Voltage-dependent modulation of elastic moduli in lattice metamaterials: Emergence of a programmable state-transition capability	Singh A., Mukhopadhyay T., Adhikari S., Bhattacharya B.	2021	208-209	31-48
1235.	Journal of the Mechanics and Physics of Solids	Contact with coupled adhesion and friction: Computational framework, applications, and new insights	Mergel J.C., Scheibert J., Sauer R.A.	2021	146	-
1236.	IEEE Robotics and Automation Letters	Adding Terrain Height to Improve Model Learning for Path Tracking on Uneven Terrain by a Four Wheel Robot	Sonker R., Dutta A.	2021	6	239-246
1237.	Measurement: Journal of the International Measurement Confederation	Machine learning method to predict and analyse transient temperature in submerged arc welding	Sarkar S.S., Das A., Paul S., Mali K., Ghosh A., Sarkar R., Kumar A.	2021	170	108713
1238.	CIRP Journal of Manufacturing Science and	Emulating bistabilities in turning to devise gain tuning strategies to actively damp them using a hardware-in-the-loop simulator	Sahu G.N., Jain P., Wahi P., Law M.	2021	32	120-131

	Technology					
1239.	CIRP Journal of Manufacturing Science and Technology	Vision-based modal analysis of cutting tools	Gupta P., Rajput H.S., Law M.	2021	32	91-107
1240.	Nonlinear Dynamics	Performance limit for base-excited energy harvesting, and comparison with experiments	Tiwari S., Vyasarayani C.P., Chatterjee A.	2021	103	197-214
1241.	Physics of Fluids	Revisiting Reynolds and Nusselt numbers in turbulent thermal convection	Bhattacharya S., Verma M.K., Samtaney R.	2021	33	-
1242.	Nonlinear Dynamics	Towards design of a nonlinear vibration stabilizer for suppressing single-mode instability	Shirude A., Vyasarayani C.P., Chatterjee A.	2021	103	1563-1583
1243.	Journal of Mechanical Science and Technology	Simulation and experimental investigation of a ballistic compression soft recovery system	Mathur G., Tiwari N.	2021	35	187-197
1244.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Vapor mediated interaction of two condensing droplets	Pradhan T.K., Panigrahi P.K.	2021	608	-
1245.	Applied Thermal Engineering	Three dimensional analysis of dye-sensitized, perovskite and monocrystalline silicon solar photovoltaic cells under non uniform solar flux	Singh P., Khanna S., Mudgal V., Newar S., Sharma V., Sundaram S., Reddy K.S., Mallick T.K., Becerra V., Hutchinson D., Radulovic J., Khusainov R.	2021	182	-
1246.	Composite	Nonlinear vibrations of a polar-	Rai A.K., Gupta S.S.	2021	256	-

	Structures	orthotropic thin circular plate subjected to circularly moving point load				
1247.	Chemical Engineering Science	Selection of a suitable paper membrane for Loop Mediated Isothermal DNA amplification reaction (LAMP) in a point-of-care diagnostic kit – Experimental and CFD analysis	Das D., Namboodiri S.	2021	229	-
1248.	Chemical Engineering Science	Molecular dynamics study of sessile ionic nanodroplet under external electric field	Chatterjee S., Hens A., Ghanta K.C., Biswas G.	2021	229	116143-1 – 116143-13
1249.	Applied Thermal Engineering	Thermal analysis of loop mediated isothermal DNA amplification (LAMP) based point-of-care diagnostic device	Das D., Panigrahi P.K.	2021	183	-
1250.						
1251.	Fluids Engineering	Unsteady hemodynamics in intracranial aneurysms with varying dome orientations	Abdullah Usmani and K. Muralidhar	2021	143, 061206	1-14
1252.	Progress in Computational Fluid Dynamics	A switching ILU(0)-SGS preconditioner for matrix systems of incompressible flow and heat transfer using condition number estimates	Krishna Chandran and K. Muralidhar	2020	20(6)	315-332
1253.	Journal of Engineering in Medicine	Assessment and visualization of hemodynamic loading in aneurysm sac and neck: effect of foam insertion	Pawan Kumar Pandey, Chandan Paul, Malay Das, and K. Muralidhar	2021	235(8)	927-939
1254.	Applied Thermal Engineering	Cooling of High-Power LEDs by Liquid Sprays: Challenges and Prospects	Sameer Khandekar, Gopinath Sahu, K. Muralidhar, Elizaveta Ya. Gatapova, Oleg A. Kabov, Run Hu, Xiaobing Luo, Liang	2020		

			Zhao			
1255.	224 Interfacial Phenomena and Heat Transfer	Mixing and Wall Heat Transfer during Vertical Coalescence of Drops placed over a Superhydrophobic Surface	Praveen M. Somwanshi, K. Muralidhar, Sameer Khandekar, and Cheverda Vyacheslav	2021	8(3)	207–224
1256.	Transactions of the Indian National Academy of Engineering	Electrowetting-on-Dielectric System for COVID-19 Testing	Vandana Jain and K. Muralidhar	2020	5	251-254
1257.	Materials and Manufacturing Processes	Processing of IN718-SS316L bimetallic-structure using laser powder bed fusion technique	Singh S.P., Aggarwal A., Upadhyay R.K., Kumar A.	2021	36	1028-1039
1258.	Journal of Micromanufacturing	In-plane compression behavior of FDM-manufactured hierarchical and hybrid hierarchical hexagonal honeycombs for infrastructural safety applications	Mishra A.K., Kumar A.	2021	-	doi:10.1177 / 251659842 11015412
1259.	International Journal of Thermal Sciences	An integrated Eulerian-Lagrangian-Eulerian investigation of coaxial gas-powder flow and intensified particle-melt interaction in directed energy deposition process	Aggarwal A., Patel S., Vinod A.R., Kumar A.	2021	166	106963
1260.	Archives of Metallurgy and Materials	Electron beam processing of sensors relevant Vacoflux-49 alloy: Experimental studies of thermal zones and microstructure	Kumar P., Yadav A., Kumar A.	2020	65	1147-1156
1261.	Mechanical Systems and Signal Processing	A point-like enhanced resolution of experimental Aeolian tone using an iterative point-time-reversal-sponge-layer damping technique	Mimani A.	2021	151	107411
1262.	Physics of	Dynamics of two coaxially rising	Kumar A., Ray B.,	2021	33	052106-1 --

	Fluids	gas bubbles	Biswas G.			052106-15
1263.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Discerning the self-healing, shear-thinning characteristics and therapeutic efficacy of hydrogel drug carriers migrating through constricted microchannel resembling blood microcapillary	Prasad N.K., Shome R., Biswas G., Ghosh S.S., Dalal A.	2021	626	127070-1— 127070-11
1264.	Computers and Fluids	Investigation on shear layer instabilities and generation of vortices during shock wave and boundary layer interaction	Kundu A., Thangadurai M., Biswas G.	2021	224	104966-1 – 104966-7
1265.	Journal of Heat Transfer (ASME)	Dynamics of Growth and Breakup of an Evaporating Pendant Drop	Pandey V., Deka H., Biswas G., Dalal A.	2020	142	021601-1 – 021601-8
1266.	Macromolecules	Glass Transition Temperature of Disentangled Polymer Melts: Single-chain-nanoparticles approach	Manjesh K. Singh, Minghan Hu, Yu Cang, Hsiao-Ping Hsu, Heloise Therien-Aubin, Kaloian Koyanov, George Fytas, Katharina Landfester and Kurt Kremer	2020	53 (17)	7312-7321
1267.	Macromolecules	Why do elastin-like polypeptides possibly have different solvation behaviors in water–ethanol and water–urea mixtures?	Yani Zhao, Manjesh K. Singh, Kurt Kremer, Robinson Cortes-Huerto and Debashish Mukherji	2020	53(6)	2101-2110
1268.	Nature Communication	Polymer cyclization for the emergence of hierarchical nanostructures.	Chaojian Chen, Manjesh K. Singh, Katrin Wunderlich et al.	2021	12	3959
1269.	Engineering Fracture Mechanics	Modelling delaminations using adaptive cohesive segments with rotations in dynamic explicit analysis	Selvaraj J., Mukhopadhyay S., Kawashita L.F., Hallett S.R.	2021	245	-

1270.	Renewable and Sustainable Energy Reviews	Real-world automotive emissions: Monitoring methodologies, and control measures	Avinash Kumar Agarwal*, Nirendra Nath Mustafi	2020	137	110624
1271.	Energy	Development and Comparative Experimental Investigations of Laser Plasma and Spark Plasma Ignited Hydrogen Enriched Compressed Natural Gas Fuelled Engine	Rajesh Kumar Prasad, Avinash Kumar Agarwal	2021	216	119282
1272.	Engine Research	Performance and emission characteristics of conventional diesel combustion/partially premixed charge compression ignition combustion mode switching of biodiesel-fueled engine	Akhilendra Pratap Singh, Avinash Kumar Agarwal*,	2021	22(2)	540-553
1273.	Environmental Science and Technology	Biomass-Derived Provenance Dominates Glacial Surface Organic Carbon in the Western Himalaya	Sarwar Nizam*, Indra S. Sen, Velu Vinoj, Valier Galy, David Selby, Mohammad F. Azam, Satyendra K. Pandey, Robert A. Creaser, Avinash K. Agarwal, Akhilendra P. Singh, and Michael Bizimis	2020	54 (14	8612–8621
1274.	Energy Resources Technology	Microscopic Spray Characteristics of Biodiesels Derived from Karanja, Jatropha and Waste Cooking Oils	Chetankumar Patel, Joonsik Hwang, Choongsik Bae, Rashmi A. Agarwal, and Avinash Kumar Agarwal	2020	142(12)	124501-1-5
1275.	Energy Resources	Effect of Fuel Injection Pressure and Premixed Ratio on Mineral	Akhilendra P. Singh, Nikhil Sharma, Dev	2020	142(12)	122301

	Technology	Diesel-Methanol Fueled Reactivity Controlled Compression Ignition Mode Combustion Engine	Prakash Satsangi, Avinash Kumar Agarwal			
1276.	Energy Resources Technology	Split Injection Strategies for Biodiesel-Fueled Premixed Charge Compression Ignition Combustion Engine-Part I: Combustion, Performance and Emission Studies	Akhilendra Pratap Singh, Avinash Kumar Agarwal*	2020	142(12)	122303
1277.	Energy Resources Technology	Split Injection Strategies for Biodiesel-Fueled Premixed Charge Compression Ignition Combustion Engine-Part II: Particulate Studies	Akhilendra Pratap Singh, Avinash Kumar Agarwal	2020	142(12)	122304
1278.	Applied Energy	Evaluation of Comparative Engine Combustion, Performance and Emission Characteristics of Low Temperature Combustion (PCCI and RCCI) Modes	Akhilendra P. Singh, Vikram Kumar, Avinash Kumar Agarwal	2020	278	115644-1-11
1279.	FUEL	Gaseous Emissions (Regulated and Unregulated) and Particulate Characteristics of a Medium-Duty CRDI Transportation Diesel Engine Fueled with Diesel-Alcohol Blends	Vikram Kumar, Akhilendra Pratap Singh, Avinash Kumar Agarwal*,	2020	278	118269-1-12
1280.	Energy Resources Technology	Particulate Morphology Characterization of Butanol-Gasoline Blend Fuelled Gasoline Direct Injection Engine	Nikhil Sharma, Avinash Kumar Agarwal	2020	142(10):	102303
1281.	FUEL	Effect of Spark Timing on Laser Ignition and Spark Ignition Modes in a Hydrogen Enriched Compressed Natural Gas Fuelled Engine	Rajesh Kumar Prasad, Nirendra Mustafi, Avinash Kumar Agarwal	2020	276	118071-1-9
1282.	FUEL	Utilization of Primary Alcohols in	Ankur Kalwar,	2020	276	118068-1-9

		Dual-Fuel Injection Mode in a Gasoline Direct Injection Engine	Akhilendra Singh, Avinash Kumar Agarwal			
1283.	Energy Resources Technology	Biodiesel Spray Characteristics and Their Effect on Engine Combustion and Particulate Emissions	Akhilendra P. Singh, Avinash Kumar Agarwal	2020	142(8)	082303
1284.	Energy Resources Technology	Fuel Injection Strategy for Utilization of Mineral Diesel-Methanol Blend in a Common Rail Direct Injection Engine	Akhilendra Pratap Singh, Nikhil Sharma, Vikram Kumar, Dev Prakash Satsangi, Avinash Kumar Agarwal	2020	142(8)	082305
1285.	Environmental Science: Processes & Impacts	Toxicity of Exhaust Particulates and Gaseous Emissions from Gasohol (Ethanol Blended Gasoline)-Fuelled Spark Ignition Engines	Avinash Kumar Agarwal*, Akhilendra Pratap Singh, Tarun Gupta, Rashmi A. Agarwal, Nikhil Sharma, Swaroop Pandey, Bushra Ateeq	2020	22	1540-1553
1286.	Hydrogen Energy	Particulate Characteristics of Laser Ignited Hydrogen Enriched Compressed Natural Gas Engine	Akhilendra Pratap Singh, Dhananjay Kumar, Avinash Kumar Agarwal	2020	45(35)	18021-18031
1287.	Transactions of the Indian National Academy of Engineering	Design and Development of a Portable Disinfectant Device	Dhananjay Kumar, Utkarsha Sonawane, Mahendra Kumar Gohil, Ravichand Pol, Anand S Patil, Reema Mittal, Avinash K Agarwal	2020	5(2)	299-303
1288.	SAE Technical	Microscopic and Macroscopic Spray Characteristics of Gasohols Using a Port Fuel Injection System	Utkarsha Sonwane, Ankur Kalwar, Avinash Kumar Agarwal	2020		

1289.	Traffic and Transportation Engineering	Development of Port Fuel Injected Methanol (M85)-Fuelled Two-Wheeler for Sustainable Transport	Tushar Agarwal, Akhilendra Pratap Singh, Avinash Kumar Agarwal	2020	7(3),	298-311
1290.	Transactions of the Indian National Academy of Engineering	Development of Autonomous Advanced Disinfection Tunnel to Tackle External Surface Disinfection of COVID-19 Virus in Public Places	Deepak Maurya, Mahendra Kumar Gohil, Utkarsha Sonawane, Dhananjay Kumar, Anuj Awasthi, Aditya Kumar Prajapati, Khushbu Kishnani, Jaya Srivastava, Akshay Age, Ravichand Pol, Santanu Misra, D. R. Sarin ³ Pawan K. Dube, Vivek Dwivedi, Alok Thakur, Ritesh Srivastava, Vishal Shukla, Ravi Ranjan, Ramakant Tiwari, Anand S Patil, Pooja Agrawal, Ashesha Sinha, Mrinal Dubey, Reema Mittal, Avinash K Agarwal	2020	5(2)	281-287
1291.	Transactions of the Indian National Academy of Engineering	Conceptual Design of a Body Bag for Preventing Infections and Safe Disposal of Deceased from COVID-19 Virus	Mayank Patel, Shubham Khatri, Jyoti Ratna Shree, Anand S Patil, Pooja Agrawal, Ashesha Sinha, Mrinal Dubey, Reema Mittal, Avinash K Agarwal*	2020	5(2),	429-435
1292.	Physics of	Spray Droplet Size Distribution	Nikhil Sharma,	2020	32	023304,

	Fluids	and Droplet Velocity Measurements in a Firing Optical Engine	William Bachalo, Avinash Kumar Agarwal			2020.
1293.	Surfaces and Interfaces	Long-term Surface Modification of PEEK polymer using Plasma and PEG Silane Treatment	Sundriyal P., Sahu M., Prakash O., Bhattacharya S.,	2021	-	101253
1294.	Scientific Reports	Development of hydrophobic paper substrates using silane and sol–gel based processes and deriving the best coating technique using machine learning strategies	Manoharan K., Anwar M.T., Bhattacharya S.	2021	11	1-12
1295.	Advanced Materials Interfaces	Anisotropic Motion of Aqueous Drops on Lubricated Chemically Heterogenous Slippery Surfaces	Sharma M., Gupta S., Bhatt B., Bhatt G., Bhattacharya S., Khare K.	2021	8	2001916
1296.	Sensors	Evolving Paradigm of Prothrombin Time Diagnostics with Its Growing Clinical Relevance towards Cardio-Compromised and COVID-19 Affected Population	Saha A., Bajpai A., Krishna V., Bhattacharya S.	2021	21	2636
1297.	Particulate Science and Technology	Numerical investigation of cold flow hydrodynamics in an internally circulating dual fluidized bed for coal gasification	Gupta S., De S.	2020	39(4)	401-414
1298.	Powder Technology	Investigation of cold flow hydrodynamics in a dual fluidized bed for gasification of high-ash coal	Gupta S., De S.	2021	384	564-574
1299.	Journal of Micromanufacturing	Nanoparticles containing boron and its compounds—synthesis and applications: A review	Tatia, S., Pandey, M., Bhattacharya S.	2020	3	159-173
1300.	Journal of Micromanufacturing	Geometry and thickness dependant anomalous mechanical	Basu A.K., Basak A., Bhattacharya S.	2020	3	113-120

	turing	behavior of fabricated SU-8 thin film micro-cantilevers				
1301.	Enzyme and Microbial Technology	Micro/Nano fabricated cantilever based biosensor platform: A review and recent progress	Basu A.K., Basu A., Bhattacharya S.	2020	139	109558
1302.	Journal of Micromanufacturing	Nano-finishing of MEMS-based platforms for optimum optical sensing	Gupta A., Sundriyal P., Basu A.K., Manoharan K., Kant R., Bhattacharya S.	2020	3	39-53
1303.	Sensor and Actuator-B Chemical	MWCNT and α -Fe ₂ O ₃ embedded rGO-nanosheets based hybrid structure for room temperature chloroform detection using fast response/recovery cantilever based sensors	Basu A.K., Sah A., Dubey M.M., Dwivedi P.K., Pradhan A., Bhattacharya S.	2020	305	127457
1304.	International Journal of Knowledge Management Studies	An application of AHP and fuzzy AHP with sensitivity analysis for selecting the right process to impart knowledge	Singh S., Bhattacharya S., Saddikuti V.	2020	11	258-277
1305.	Materials Characterization	On the kinetics of texture development in Al-Mg alloy under high strain rate tension	Srinivasan N, Gurao NP, Parameswaran V	2020	163	Article Number: 110303
1306.	Journal of Alloys and Compounds	High strain rate compression behaviour of single phase CoCuFeMnNi high entropy alloy	Sonkusare R, Jain R, Biswas K, Parameswaran V, Gurao NP	2020	823	Article Number: 153763
Physics						
1307.	Physical Review B	Coupling-decoupling of conducting topological surface states in thick Bi ₂ Se ₃ single crystals	Jash A., Ghosh S., Bharathi A., Banerjee S.S.	2020	101	165119
1308.	Journal of Physics: Condensed Matter	Exploring a low temperature glassy state, exchange bias effect, and high magnetic anisotropy in Co ₂ C nanoparticles	N Roy, MA Ali, A Sen, DT Adroja, P Sen, SS Banerjee	2021	33 (37)	375804

1309.	Scientific reports	Imaging current distribution in a topological insulator Bi ₂ Se ₃ in the presence of competing surface and bulk contributions to conductivity	Amit Jash, Ankit Kumar, Sayantan Ghosh, A. Bharathi and S. S. Banerjee	2021	11	7445
1310.	Physical Review Research	Exploring the non-equilibrium fluctuation relation for quantum mechanical tunnelling of electrons across a modulating barrier	Dibya J. Sivananda, Nirmal Roy, P. C. Mahato, and S. S. Banerjee	2020	2	043237
1311.	Phys. Rev. B	Imaging the effect of drive on the low-field vortex melting phenomenon in Ba _{0.6} K _{0.4} Fe ₂ As ₂ single crystal	Ankit Kumar, Amit Jash, Tsuyoshi Tamegai, S. S. Banerjee*	2020	101	184516
1312.	Journal of Applied Physics	Localized spin waves at low temperatures in a Cobalt Carbide nanocomposite	Nirmal Roy, Arpita Sen, Prasenjit Sen, S. S. Banerjee*	2020	127	124301
1313.	Phys. Rev. B	Low-field vortex melting in a single crystal of Ba _{0.6} K _{0.4} Fe ₂ As ₂	Ankit Kumar , Sayantan Ghosh, Tsuyoshi Tamegai, and S. S. Banerjee*	2020	101	14502
1314.	Journal of Applied Physics	Alternating silicon oxy-nitride and silicon oxide stripe formation by nitric oxide (NO ⁺) ion implantation	Mukherjee J., Bhowmik D., Mukherjee M., Satpati B., Karmakar P.	2020	127	-
1315.	Physical Review B	Evolution of charge density wave order and superconductivity under pressure in LaPt ₂ Si ₂	Shen B., Du F., Li R., Thamizhavel A., Smidman M., Nie Z.Y., Luo S.S., Le T., Hossain Z., Yuan H.Q.	2020	101	-
1316.	Physical Review A	Controlling propagation of spatial coherence for enhanced imaging through scattering media	Bhattacharjee A., Aarav S., Wanare H., Jha A.K.	2020	101	-
1317.	Physical	Spectral form factors of clean and	Nivedita, Shackleton	2020	101	-

	Review E	random quantum Ising chains	H., Sachdev S.			
1318.	Physical Review E	Evolutionary dynamics of the delayed replicator-mutator equation: Limit cycle and cooperation	Mittal S., Mukhopadhyay A., Chakraborty S.	2020	101	-
1319.	Physical Review E	Scale-to-scale energy transfer rate in compressible two-fluid plasma turbulence	Banerjee S., Andrés N.	2020	101	-
1320.	AIP Advances	Steady state densities in a plasma confined by a dipole magnet: Diffusion induced transport explored through direct measurements and modeling	Baitha A.R., Nanda A., Hunjan S., Bhattacharjee S.	2020	10	045328-1 – 045328-13
1321.	Journal of the Optical Society of America B: Optical Physics	Intrinsic degree of coherence of two-qubit states and measures of two-particle quantum correlations	Meher N., Patoary A.S.M., Kulkarni G., Jha A.K.	2020	37	1224-1230
1322.	Journal of High Energy Physics	A tale of three — tensionless strings and vacuum structure	Bagchi A., Banerjee A., Chakraborty S., Dutta S., Parekh P.	2020	2020	-
1323.	Journal of Biophotonics	Mapping of retardance, diattenuation and polarizance vector on Poincare sphere for diagnosis and classification of cervical precancer	Zaffar M., Pradhan A.	2020	13	-
1324.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	Interdiffusion in β (BCC) Phase of the Ti-Al-Mn System at 1100 °C	Tripathi A., Kulkarni A., Kulkarni K.N.	2020	51	1789-1798
1325.	Physical Review D	Swampland, axions, and minimal warm inflation	Das S., Goswami G., Krishnan C.	2020	101	-

1326.	Physical Review B	Charge fluctuations across the pressure-induced quantum phase transition in $\text{EuCu}_2(\text{Ge}_{1-x}\text{S}_x)_2$	Ahmida M.A., Forthaus M.K., Geibel C., Hossain Z., Hearne G.R., Kařtil J., Prchal J., Sechovský V., Abd-Elmeguid M.M.	2020	101	-
1327.	Applied Optics	Gradient-based one-step fluorescence photoacoustic tomography	Pandey P.K., Gottam O., Naik N., Pradhan A.	2020	59	4357-4366
1328.	Physics of Plasmas	Turbulent drag reduction in magnetohydrodynamic and quasi-static magnetohydrodynamic turbulence	Verma M.K., Alam S., Chatterjee S.	2020	27	-
1329.	Physics of Plasmas	The emergence of inertial waves from coherent vortex source in strongly coupled dusty plasma	Gupta A., Ganesh R.	2020	27	-
1330.	Journal of Statistical Mechanics: Theory and Experiment	Aspects of the S transformation bootstrap	Brehm E.M., Das D.	2020	2020	-
1331.	Physical Review Applied	Measurement of Pure States of Light in the Orbital-Angular-Momentum Basis Using Nine Multipixel Image Acquisitions	Kulkarni G., Karan S., Jha A.K.	2020	13	-
1332.	Physical Review B	Imaging the effect of drive on the low-field vortex melting phenomenon in a $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ single crystal	Kumar A., Jash A., Tamegai T., Banerjee S.S.	2020	101	184516
1333.	Physical Review B	Growth of mutual information in a quenched one-dimensional open quantum many-body system	Maity S., Bandyopadhyay S., Bhattacharjee S., Dutta A.	2020	101	-
1334.	Advanced Functional	Transition-Metal Dichalcogenide NiTe_2 : An Ambient-Stable	Nappini S., Boukhvalov D.W.,	2020	30	-

	Materials	Material for Catalysis and Nanoelectronics	D'Olimpio G., Zhang L., Ghosh B., Kuo C.-N., Zhu H., Cheng J., Nardone M., Ottaviano L., Mondal D., Edla R., Fuji J., Lue C.S., Vobornik I., Yarmoff J.A., Agarwal A., Wang L., Zhang L., Bondino F., Politano A.			
1335.	Plasma Research Express	Characteristics of atmospheric pressure micro-plasma jets in two different modes of excitation depending upon wave amplitude and frequency	Barman K., Behmani D., Mudgal M., Bhattacharjee S., Rane R., Nema S.K.	2020	2	025007 (15 pages)
1336.	Applied Physics Letters	Surface plasmon coupling for selectively enhanced random lasing in periodically patterned silver columnar thin film metamaterials	Kumar R., Tiwari A.K., Anantha Ramakrishna S.	2020	116	-
1337.	Physical Review B	Unconventional phases in a Haldane model of dice lattice	Dey B., Kapri P., Pal O., Ghosh T.K.	2020	101	-
1338.	Applied Optics	Performance enhancement due to a top dielectric coating on a metamaterial perfect absorber	Pradhan J.K., Achanta V.G., Agarwal A.K., Anantha Ramakrishna S.	2020	59	E118-E125
1339.	Nano Letters	Giant Tunable Mechanical Nonlinearity in Graphene-Silicon Nitride Hybrid Resonator	Singh R., Sarkar A., Guria C., Nicholl R.J.T., Chakraborty S., Bolotin K.I., Ghosh S.	2020	20	4659-4666
1340.	Physics Letters, Section B:	The geometry of RN-AdS fluids	Bairagya J.D., Pal K., Pal K., Sarkar T.	2020	805	-

	Nuclear, Elementary Particle and High-Energy Physics					
1341.	European Physical Journal B	Comprehending deterministic and stochastic occasional uncoupling induced synchronizations through each other	Ghosh A., Chakraborty S.	2020	93	-
1342.	European Physical Journal Plus	Sivers and Boer–Mulders GTMDs in light-front holographic quark–diquark model	Chakrabarti D., Kumar N., Maji T., Mukherjee A.	2020	135	-
1343.	Journal of High Energy Physics	An entropy current for dynamical black holes in four-derivative theories of gravity	Bhattacharya J., Bhattacharyya S., Dinda A., Kundu N.	2020	2020	-
1344.	Journal of Magnetism and Magnetic Materials	Probing magnetism of individual nano-structures using Nb μ -SQUIDS in hysteresis free mode	Paul S., Kotagiri G., Ganguly R., Parashari H., Courtois H., Winkelmann C.B., Gupta A.K.	2020	503	-
1345.	Journal of Colloid and Interface Science	Evaporation dynamics of pure and binary mixture drops on dry and lubricant coated slippery surfaces	Sharma M., Mondal S.S., Roy P.K., Khare K.	2020	569	244-253
1346.	Journal of Theoretical Biology	Periodic orbit can be evolutionarily stable: Case Study of discrete replicator dynamics	Mukhopadhyay A., Chakraborty S.	2020	497	-
1347.	Physical Review B	Valley caloritronics in a photodriven heterojunction of Dirac materials	Kapri P., Dey B., Ghosh T.K.	2020	102	-
1348.	Physical Review B	Magnetotransport properties of the topological nodal-line semimetal CaCdSn	Laha A., Mardanya S., Singh B., Lin H., Bansil A., Agarwal A., Hossain Z.	2020	102	-
1349.	Physical	Torsion driven inflationary	Kothari R., Saketh	2020	102	-

	Review D	magnetogenesis	M.V.S., Jain P.			
1350.	Physical Review B	K ₂ CoS ₂ : A two-dimensional in-plane antiferromagnetic insulator	Sarkar A.B., Ghosh B., Singh B., Bhowmick S., Lin H., Bansil A., Agarwal A.	2020	102	-
1351.	Optics Letters	Experimental demonstration of structural robustness of spatially partially coherent fields in turbulence	Bhattacharjee A., Jha A.K.	2020	45	4068-4071
1352.	Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences	Boltzmann equation and hydrodynamic equations: Their equilibrium and non-equilibrium behaviour: Fluids: equilibrium vs. nonequilibrium	Verma M.K.	2020	378	-
1353.	Physical Review Letters	Observation of Quantum Phase Synchronization in Spin-1 Atoms	Laskar A.W., Adhikary P., Mondal S., Katiyar P., Vinjanampathy S., Ghosh S.	2020	125	-
1354.	Physical Review D	Proton structure from a light-front Hamiltonian	Mondal C., Xu S., Lan J., Zhao X., Li Y., Chakrabarti D., Vary J.P., BLFQ Collaboration	2020	102	-
1355.	Journal of Cosmology and Astroparticle Physics	The angular resolution of GRAPES-3 EAS array after improved timing and shower front curvature correction based on age and size	Jhansi V.B., Ahmad S., Chakraborty M., Dugad S.R., Gupta S.K., Hariharan B., Hayashi Y., Jagadeesan P., Jain A., Jain P., Kawakami S., Kojima H.,	2020	2020	-

			Mahapatra S., Mohanty P.K., Morris S.D., Nayak P.K., Oshima A., Pattanaik D., Rakshe P.S., Ramesh K., Rao B.S., Reddy L.V., Shibata S., Varsi F., Zuberi M.			
1356.	Journal of Physics Communications	Bulk-edge correspondence and topological phases in periodically driven spin-orbit coupled materials in the low-frequency limit	Saxena R., Rao S., Kundu A.	2020	4	1-11
1357.	Science Advances	Chiral shape fluctuations and the origin of chirality in cholesteric phases of DNA origamis	Tortora M.M.C., Mishra G., Prešern D., Doye J.P.K.	2020	6	-
1358.	Chaos	Kolmogorov flow: Linear stability and energy transfers in a minimal low-dimensional model	Chatterjee S., Verma M.K.	2020	30	-
1359.	Science Advances	Realization of an intrinsic ferromagnetic topological state in MnBi ₈ Te ₁₃	Hu C., Ding L., Gordon K.N., Ghosh B., Tien H.-J., Li H., Garrison Linn A., Lien S.-W., Huang C.-Y., Mackey S., Liu J., Sreenivasa Reddy P.V., Singh B., Agarwal A., Bansil A., Song M., Li D., Xu S.-Y., Lin H., Cao H., Chang T.-R., Dessau D., Ni N.	2020	6	-
1360.	Physical Review A	Magnetization revivals and dynamics of quantum correlations in a Kitaev spin chain	Kumar Vimal V., Subrahmanyam V.	2020	102	-

1361.	European Physical Journal D	Electron emission in fast heavy ion impact ionization of C60 and Ne: giant plasmon excitation	Kelkar A.H., Misra D., Gulyás L., Tribedi L.C.	2020	74	-
1362.	Journal of High Energy Physics	Quantum quench, large N, and symmetry restoration	Das D., Dey B.	2020	2020	-
1363.	Journal of the Optical Society of America A: Optics and Image Science, and Vision	One-step fluorescence photoacoustic tomography with the optical radiative transfer model	Pandey P.K., Bharadwaj J., Naik N., Aggrawal H.O.	2020	37	1175-1192
1364.	Journal of Physics Condensed Matter	Soft mechano-chemistry of molecular hubs in mitotic spindle: Biomechanics and mechanical proofreading at microtubule ends	Chowdhury D., Ghanti D.	2020	32	-
1365.	Journal of Biophotonics	Spatial autocorrelation analysis on two-dimensional images of Mueller matrix for diagnosis and differentiation of cervical precancer	Zaffar M., Pradhan A.	2020	13	-
1366.	Physical Review Letters	Detecting One-Dimensional Dipolar Bosonic Crystal Orders via Full Distribution Functions	Chatterjee B., Lévêque C., Schmiedmayer J., Lode A.U.J.	2020	125	-
1367.	Journal of Physics B: Atomic, Molecular and Optical Physics	Accurate effective potential for density amplitude and the corresponding Kohn-Sham exchange-correlation potential calculated from approximate wavefunctions	Kumar A., Singh R., Harbola M.K.	2020	53	-
1368.	Journal of Non-Crystalline Solids	Chalcogenide glass microstructured optical fiber as a potential candidate for slow-light generation via stimulated	Sharma D.K., Tripathi S.M.	2020	542	-

		Brillouin scattering				
1369.	New Journal of Physics	Flagellar length control in biflagellate eukaryotes: Time-of-flight, shared pool, train traffic and cooperative phenomena	Patra S., Jülicher F., Chowdhury D.	2020	22	-
1370.	Physical Review E	Exploring the role of asymmetric-pulse modulation in quantum thermal machines and quantum thermometry	Mondal S., Bhattacharjee S., Dutta A.	2020	102	-
1371.	Journal of the Optical Society of America B: Optical Physics	Dependence of the photon statistics of down-converted field-modes on the photon statistics of the pump field-mode	Meher N., Jha A.K.	2020	37	2248-2255
1372.	European Physical Journal C	Open quantum entanglement: a study of two atomic system in static patch of de Sitter space	Akhtar S., Choudhury S., Chowdhury S., Goswami D., Panda S., Swain A.	2020	80	-
1373.	Journal of Optics (United Kingdom)	Phase matching in β -barium borate crystals for spontaneous parametric down-conversion	Karan S., Aarav S., Bharadhwaj H., Taneja L., De A., Kulkarni G., Meher N., Jha A.K.	2020	22	-
1374.	Physical Review D	Lowering the tensor-to-scalar ratio by preinflationary dynamics	Das S.	2020	102	-
1375.	Physical Review D	Strong gravitational lensing by a strongly naked null singularity	Paul S.	2020	102	-
1376.	Proceedings of the Indian National Science Academy	Exploration of high symmetry β -PxSi materials for 2D-electronics	Agnihotri S., Agarwal A., Bhowmick S., Chauhan Y.S.	2020	86	1225-1232
1377.	Physics of Fluids	Freely decaying turbulence in a finite domain at finite Reynolds	Anas M., Joshi P., Verma M.K.	2020	32	-

		number				
1378.	Physical Review B	Unitary preparation of many-body Chern insulators: Adiabatic bulk-boundary correspondence	Bandyopadhyay S., Dutta A.	2020	102	-
1379.	European Physical Journal C	Collapse in f(R) gravity and the method of R matching	Chowdhury S., Pal K., Pal K., Sarkar T.	2020	80	-
1380.	Physics of Fluids	Bridging inertial and dissipation range statistics in rotating turbulence	Rathor S.K., Sharma M.K., Ray S.S., Chakraborty S.	2020	32	-
1381.	European Physical Journal C	Schwarzschild de Sitter and extremal surfaces	Fernandes K., Kolekar K.S., Narayan K., Roy S.	2020	80	-
1382.	Physical Review B	Non-Fermi liquid regime in metallic pyrochlore iridates: Quantum Griffiths singularities	Ghosh B., Dwivedi V.K., Mukhopadhyay S.	2020	102	-
1383.	Carbon	Exploring the role of electronic structure on photo-catalytic behavior of carbon-nitride polymorphs	Datta S., Singh P., Jana D., Chaudhuri C.B., Harbola M.K., Johnson D.D., Mookerjee A.	2020	168	125-134
1384.	Physical Review B	Temperature-dependent electronic structure in a higher-order topological insulator candidate EuIn ₂ As ₂	Regmi S., Hosen M.M., Ghosh B., Singh B., Dhakal G., Sims C., Wang B., Kabir F., Dimitri K., Liu Y., Agarwal A., Lin H., Kaczorowski D., Bansil A., Neupane M.	2020	102	-
1385.	Physical Review B	Chiral Luttinger liquids in graphene tuned by irradiation	Biswas S., Mishra T., Rao S., Kundu A.	2020	102	-
1386.	Physical Review B	Isotropic s-wave superconductivity in the noncentrosymmetric charge density wave superconductor	Gupta R., Löhnert C., Wang C., Johrendt D., Luetkens H., Malick	2020	102	-

		SrPt ₂ As ₂	S., Shiroka T., Hossain Z., Khasanov R.			
1387.	Journal of Magnetism and Magnetic Materials	Correlated motion of particle-hole excitations across the renormalized spin-orbit gap in Sr ₂ IrO ₄	Mohapatra S., Singh A.	2020	512	-
1388.	Physical Review B	Interplay between valence fluctuations and lattice instabilities across the quantum phase transition in EuCu ₂ (Ge _{1-x} Si _x) ₂	Ahmida M.A., Johrendt D., Hearne G.R., Geibel C., Hossain Z., Abd- Elmeguid M.M.	2020	102	-
1389.	Journal of Physics Condensed Matter	Magnetic field-dependent resistance crossover and anomalous magnetoresistance in topological insulator Bi ₂ Te ₃	Nivedan A., Das K., Kumar S., Singh A., Mardanya S., Agarwal A., Kumar S.	2020	32	-
1390.	IEEE Photonics Journal	Light diffraction from a flexible patterned layer with periodically arranged dimples	Halder A., Ramarao V.	2020	12	2700210
1391.	Monthly Notices of the Royal Astronomical Society	One-point probability distribution function from spherical collapse: Early dark energy versus Λ CDM	Mandal A., Nadkarni-Ghosh S.	2020	498	355-372
1392.	IEEE Sensors Letters	Simultaneous Existence of Ultrahigh and Ultralow Spectral Sensitivity for Directional Couplers	Bawa G., Kumar I., Tripathi S.M.	2020	4	-
1393.	European Physical Journal C	Characters and group invariant polynomials of (super)fields: road to “Lagrangian”	Banerjee U., Chakraborty J., Prakash S., Rahaman S.U.	2020	80	-
1394.	Physical Review B	Dynamical polarization and plasmons in noncentrosymmetric metals	Verma S., Kundu A., Ghosh T.K.	2020	102	-

1395.	Physical Review D	Runaway potentials in warm inflation satisfying the swampland conjectures	Das S., Ramos R.O.	2020	102	-
1396.	Journal of Physics Condensed Matter	Magnetic reorientation transition in a three orbital model for Ca ₂ RuO ₄ - Interplay of spin-orbit coupling, tetragonal distortion, and Coulomb interactions	Mohapatra S., Singh A.	2020	32	-
1397.	International Journal of Quantum Chemistry	A general penalty method for density-to-potential inversion	Kumar A., Harbola M.K.	2020	120	-
1398.	Physical Review B	Magnus Nernst and thermal Hall effect	Mandal D., Das K., Agarwal A.	2020	102	-
1399.	Physical Review B	Three interaction energy scales in the single-layer high- T _c cuprate HgBa ₂ Cu O ₄ + δ	Sreedhar S.A., Rossi A., Nayak J., Anderson Z.W., Tang Y., Gregory B., Hashimoto M., Lu D.-H., Rotenberg E., Birgeneau R.J., Greven M., Yi M., Vishik I.M.	2020	102	-
1400.	Journal of Physics Condensed Matter	Pseudo-spin rotation symmetry breaking by Coulomb interaction terms in spin-orbit coupled systems	Mohapatra S., Singh A.	2020	33	-
1401.	Physical Review B	Dissipative preparation of many-body Floquet Chern insulators	Bandyopadhyay S., Dutta A.	2020	102	-
1402.	Monthly Notices of the Royal Astronomical Society	Alignment of radio galaxy axes using FIRST catalogue	Panwar M., Prabhakar, Sandhu P.K., Wadadekar Y., Jain P.	2020	499	1226-1232
1403.	Monthly Notices of the	Constraining the distance to the North Polar Spur with Gaia DR2	Das K.K., Zucker C., Speagle J.S.,	2020	498	5863-5872

	Royal Astronomical Society		Goodman A., Green G.M., Alves J.			
1404.	Journal of High Energy Physics	BMS modular diaries: torus one-point function	Bagchi A., Nandi P., Saha A., Zodinmawia	2020	2020	-
1405.	Chaos	Effect of chaotic agent dynamics on coevolution of cooperation and synchronization	Chattopadhyay R., Sadhukhan S., Chakraborty S.	2020	30	-
1406.	European Physical Journal C	Type-I thermal leptogenesis in Z3-symmetric three Higgs doublet model	Chakraborty I., Roy H.	2020	80	-
1407.	Journal of High Energy Physics	Virasoro blocks and quasimodular forms	Das D., Datta S., Raman M.	2020	2020	-
1408.	Microwave and Optical Technology Letters	Propagation of wave in a cylindrical waveguide filled with hyperbolic negative index medium	Bhardwaj A., Srivastava K.V., Ramakrishna S.A.	2020	62	3385-3390
1409.	Physical Review D	Gravitational form factors and mechanical properties of proton in a light-front quark-diquark model	Chakrabarti D., Mondal C., Mukherjee A., Nair S., Zhao X.	2020	102	-
1410.	Physical Review B	Fermiology and type-I superconductivity in the chiral superconductor NbGe2 with Kramers-Weyl fermions	Emmanouilidou E., Mardanya S., Xing J., Reddy P.V.S., Agarwal A., Chang T.-R., Ni N.	2020	102	-
1411.	Journal of Alloys and Compounds	Grain size dependence of electrical transport in magnetoelectric gallium ferrite ceramics	Bansal U., Singh V., Brajesh K., Gupta R., Garg A.	2020	847	-
1412.	Physical Review B	Experimental and theoretical study of the correlated compound YbCdSn: Evidence for large magnetoresistance and mass	Laha A., Rambabu P., Kanchana V., Petit L., Szotek Z., Hossain Z.	2020	102	-

		enhancement				
1413.	Journal of Chemical Theory and Computation	Computing the Elastic Mechanical Properties of Rodlike DNA Nanostructures	Chhabra H., Mishra G., Cao Y., Prešern D., Skoruppa E., Tortora M.M.C., Doye J.P.K.	2020	16	7748-7763
1414.	Applied Sciences (Switzerland)	Modelling, design and validation of spatially resolved reflectance based fiber optic probe for epithelial precancer diagnostics	Singh P., Pandey P., Shukla S., Naik N., Pradhan A.	2020	10	1-16
1415.	Journal of the Optical Society of America B: Optical Physics	Controlling spatial mode superposition to channel light flow in a photonic crystal	Kaur G., Wanare H.	2020	37	3809-3818
1416.	Chaos	Deciphering chaos in evolutionary games	Mukhopadhyay A., Chakraborty S.	2020	30	-
1417.	European Physical Journal C	Fingerprinting the contribution of colored scalars to the H+W-Z(γ) vertex	Chakrabarty N., Chakraborty I., Ghosh D.K.	2020	80	-
1418.	Indian Journal of Gynecologic Oncology	Can Optical Handheld Probe Based on Co-polarized and Cross-Polarized Fluorescence Spectroscopy Become the Face of Cervical Cancer Screening in Future in Developing Countries?	Pandey K., Tandon M., Pradhan A., Bhagoliwal A., Agarwal A., Lal P., Gupta G.	2020	18	-
1419.	Monthly Notices of the Royal Astronomical Society	Bayesian inference for compact binary coalescences with BILBY: Validation and application to the first LIGO-Virgo gravitational-wave transient catalogue	Romero-Shaw I.M., Talbot C., Biscoveanu S., D'Emilio V., Ashton G., Berry C.P.L., Coughlin S., Galaudage S., Hoy C., Hübner M., Phukon K.S., Pitkin	2020	499	3295-3319

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1420.	Bulletin of Materials Science	Static and dynamic behaviour of aqueous drops on thin lubricating fluid-coated slippery (LCS)	Sharma M., Bhatt B., Gupta S., Pant R., Khare K.	2020	43	-

		surfaces				
1421.	Nature Communications	Fermion–boson many-body interplay in a frustrated kagome paramagnet	Yin J.-X., Shumiya N., Mardanya S., Wang Q., Zhang S.S., Tien H.-J., Multer D., Jiang Y., Cheng G., Yao N., Wu S., Wu D., Deng L., Ye Z., He R., Chang G., Liu Z., Jiang K., Wang Z., Neupert T., Agarwal A., Chang T.-R., Chu C.-W., Lei H., Hasan M.Z.	2020	11	-
1422.	Scientific Reports	Observation of gapped state in rare-earth monpnictide HoSb	Hosen M.M., Dhakal G., Wang B., Poudel N., Singh B., Dimitri K., Kabir F., Sims C., Regmi S., Neff W., Sarkar A.B., Agarwal A., Murray D., Weickert F., Gofryk K., Pavlosiuk O., Wiśniewski P., Kaczorowski D., Bansil A., Neupane M.	2020	10	-
1423.	Advanced Materials Interfaces	Anisotropic Motion of Aqueous Drops on Lubricated Chemically Heterogenous Slippery Surfaces	Sharma M., Gupta S., Bhatt B., Bhatt G., Bhattacharya S., Khare K.	2021	8	-
1424.	Astroparticle Physics	General treatment of reflection of spherical electromagnetic waves from a spherical surface and its implications for the ANITA anomalous polarity events	Dasgupta P., Jain P.	2021	128	-

1425.	Physica Scripta	Characterizing spatially varying optical emissions in a steady-state dipole plasma: Inversion based experiments and modeling	Bhattacharjee S., Baitha A.R., Mathew J.V., Bhattacharjee S.	2021	96	035605 (14 pages)
1426.	Astrophysical Journal	Testing Evolution of LFQPOs with Mass Accretion Rate in GRS 1915+105 with Insight-HXMT	Liu H., Ji L., Bambi C., Jain P., Misra R., Rawat D., Yadav J.S., Zhang Y.	2021	909	-
1427.	Journal of Cosmology and Astroparticle Physics	Tidal disruption near black holes and their mimickers	Banerjee P., Paul S., Shaikh R., Sarkar T.	2021	2021	-
1428.	Applied Physics Letters	Dielectric constant of thin film graphitic carbon nitride (g-C ₃ N ₄) and double dielectric Al ₂ O ₃ /g-C ₃ N ₄	Patra P.C., Mohapatra Y.N.	2021	118	-
1429.	Physica A: Statistical Mechanics and its Applications	Flagellar length control in monoflagellates by motorized transport: Growth kinetics and correlations of length fluctuations	Patra S., Chowdhury D.	2021	566	-
1430.	Physical Review D	CP violation at ATLAS in effective field theory	Das Bakshi S., Chakraborty J., Englert C., Spannowsky M., Stylianou P.	2021	103	-
1431.	Physical Review D	Classifying standard model extensions effectively with precision observables	Das Bakshi S., Chakraborty J., Spannowsky M.	2021	103	-
1432.	Astrophysical Journal	Constraining Modified Gravity from Tidal Phenomena in Binary Stars	Banerjee P., Garain D., Paul S., Shaikh R., Sarkar T.	2021	910	-
1433.	Journal of Physics D: Applied	Concurrent deep UV diffractions enabled by the Bragg condition and crystal symmetry in silica	Rout D., Kumar G., Vijaya R.	2021	54	125104

	Physics	inverse opals				
1434.	Physical Review B	Intrinsic Hall conductivities induced by the orbital magnetic moment	Das K., Agarwal A.	2021	103	-
1435.	Physica D: Nonlinear Phenomena	Suppressing birhythmicity by parametrically modulating nonlinearity in limit cycle oscillators	Saha S., Chakraborty S., Gangopadhyay G.	2021	416	-
1436.	IEEE Transactions on Electron Devices	Assessing Negative-Capacitance Drain-Extended Technology for High-Voltage Switching and Analog Applications	Pahwa G., Gaidhane A.D., Agarwal A., Chauhan Y.S.	2021	68	679-687
1437.	Optical and Quantum Electronics	Coupling loss attributes of large mode-area hexagonal photonic crystal fibers in presence of misalignments: an alternative optical model	Sharma D.K., Tripathi S.M.	2021	53	1-25
1438.	Applied Physics B: Lasers and Optics	Polarization state of transmitted and emitted light in homogeneous and inhomogeneous medium	Sahani P., Vijaya R.	2021	127	27
1439.	European Physical Journal Plus	Wigner functions in quantum mechanics with a minimum length scale arising from generalized uncertainty principle	Yeole P., Kumar V., Bhattacharya K.	2021	136	-
1440.	Nonlinear Dynamics	Chaos and order in librating quantum planar elastic pendulum	Anurag, Mondal B., Shah T., Chakraborty S.	2021	103	2841-2853
1441.	Physical Review Applied	Stochastic Resonance in Thermally Bistable Josephson Weak Links and Micro-SQUIDS	Paul S., Kotagiri G., Ganguly R., Courtois H., Winkelmann C.B., Gupta A.K.	2021	15	-
1442.	Chaos	Replicator equations induced by microscopic processes in nonoverlapping population playing bimatrix games	Mukhopadhyay A., Chakraborty S.	2021	31	-

1443.	Bulletin of the Lebedev Physics Institute	General Treatment of Reflection of Spherical Electromagnetic Waves from Spherical, Uneven Antarctic Surface and Its Implications for the Mystery Events Detected by ANITA	Dasgupta P., Jain P.	2021	48	59-62
1444.	Journal of High Energy Physics	Black rings in large D membrane paradigm at the first order	Mandlik M.	2021	2021	-
1445.	IEEE Sensors Journal	Ultra High Sensitive Refractive Index Sensor Using a Metal Under-Clad Ridge Waveguide Modal Interferometer near the Dispersion Turning Point	Dwivedi R., Kumar A., Tripathi S.M.	2021	21	4674-4681
1446.	Physical Review B	Positive exchange bias and inverted hysteresis loop in Y3 Fe5 O12/ Gd3 Ga5 O12	Kumar R., Sarangi S.N., Samal D., Hossain Z.	2021	103	-
1447.	Physical Review B	Observation of dynamic screening in the excited exciton states in multilayered MoS2	Karmakar M., Bhattacharya S., Mukherjee S., Ghosh B., Chowdhury R.K., Agarwal A., Ray S.K., Chanda D., Datta P.K.	2021	103	-
1448.	Monthly Notices of the Royal Astronomical Society	Square Kilometre Array Science Data Challenge 1: Analysis and results	Bonaldi A., An T., Bruggen M., Burkutean S., Coelho B., Goodarzi H., Hartley P., Sandhu P.K., Wu C., Yu L., Zhoolideh Haghighi M.H., Anton S., Bagheri Z., Barbosa D., Barraca J.P., Bartashevich D., Bergano M., Bonato M., Brand J., de	2021	500	3821-3837

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1449.	Journal of High Energy Physics	Effective operator bases for beyond Standard Model scenarios: an EFT compendium for discoveries	Banerjee U., Chakraborty J., Prakash S., Rahaman S.U., Spannowsky M.	2021	2021	-
1450.	Physics of Fluids	Revisiting Reynolds and Nusselt numbers in turbulent thermal convection	Bhattacharya S., Verma M.K., Samtaney R.	2021	33	-
1451.	Optical Fiber Technology	Optical attributes of mode-field expansion in solid-core hexagonal microstructured optical fibers	Singh H., Kumar Sharma D., Mani Tripathi S.	2021	61	-
1452.	Physical Review D	Electroweakino searches at the HL-LHC in the baryon number violating MSSM	Barman R.K., Bhattacharjee B., Chakraborty I., Choudhury A., Khan N.	2021	103	-
1453.	Physical Review Letters	Rindler Physics on the String Worksheet	Bagchi A., Banerjee A., Chakraborty S.	2021	126	-
1454.	Physical Review B	Nodeless superconductivity in the charge density wave	Nie Z.Y., Yin L.C., Thamizhavel A.,	2021	103	-

		superconductor LaPt ₂ Si ₂	Wang A., Shen B., Che L.Q., Du F., Hossain Z., Smidman M., Lu X., Yuan H.Q.			
1455.	Applied Optics	Ultrahigh sensitive long-period fiber grating-based sensor for detection of adulterators in biofuel	K Dandapat, I Kumar, SM Tripathi	2020	60 (24)	7206-7213
1456.	Journal of Optical Communications	Modelling and analysis of chirped long-period grating inscribed in a planer optical waveguide structure for sensing applications	AC Mishra, K Dandapat, SM Tripathi, P Lohia, DK Dwivedi	2020		
1457.	Journal of Non- Crystalline Solids	Synopsis on optical attributes of chalcogenide glass solid-core hexagonal microstructured optical fibers in infrared regime	DK Sharma, SM Tripathi	2020	542	120114
1458.	Progress in Optomechanics	Theoretical Implications for Surface Plasmon Resonance Based on Microstructured Optical Fiber	DK Sharma, SM Tripathi	2020		43-52
1459.	Journal of Physics: Condensed Matter	Exploring a low temperature glassy state, exchange bias effect, and high magnetic anisotropy in Co ₂ C nanoparticles	N Roy, MA Ali, A Sen, DT Adroja, P Sen, SS Banerjee	2021	33 (37)	375804
1460.	Scientific reports	Imaging current distribution in a topological insulator Bi ₂ Se ₃ in the presence of competing surface and bulk contributions to conductivity	Amit Jash, Ankit Kumar, Sayantan Ghosh, A. Bharathi and S. S. Banerjee	2021	11	7445
1461.	Physical Review Research	Exploring the non-equilibrium fluctuation relation for quantum mechanical tunnelling of electrons across a modulating barrier	Dibya J. Sivananda, Nirmal Roy, P. C. Mahato, and S. S. Banerjee	2020	2	043237
1462.	Journal of Applied	Localized spin waves at low temperatures in a Cobalt Carbide	Nirmal Roy, Arpita	2020	127	124301

	Physics	nanocomposite	Sen, Prasenjit Sen, S. S. Banerjee*			
1463.	Phys. Rev. B	Low-field vortex melting in a single crystal of Ba _{0.6} K _{0.4} Fe ₂ As ₂	Ankit Kumar , Sayantan Ghosh, Tsuyoshi Tamegai, and S. S. Banerjee*	2020	101	14502
1464.	Physics News	Sixty Years of Lasers	Vijaya R.	2020	50	4-10
1465.	IEEE Photonics Technology Letters	Translationally invariant generation of annular beams using thin films	Sharma N., Kumar G., Garg V., Mote R. G., Vijaya R., Gupta S.	2020	32	1273-1276.
1466.	Applied Optics	Tuning optical properties of atomically heterogeneous systems created by plasma-based low-energy ion beams	Singh K. P., Majumdar J., Bhattacharjee S	2020	59	4507 - 451602
1467.	Plasma Research Express	Variable gaseous ion beams from plasmas driven by electromagnetic waves for nano-micro structuring : a tutorial and an overview of recent works and future prospects	Maurya S. K., Bhattacharjee S	2020	2	033001 (23 pages)
Sustainable Energy Engineering						
1468.	Inorganica Chimica Acta	Air-stable nickel (II) borohydrides as prohydrides: Reactions with halocarbons and aerial carbon dioxide	Kalaikodikumaran Mani, Parameswar Pal, Karunanithi, Anandababua, Sakthi Raje, Raja Angamuthu	2021	526	120526
1469.	Solar Energy	Enhanced thermal and moisture stability via dual additives approach in methylammonium lead iodide based planar perovskite solar cells	Rahul Ranjan Sudhir Ranjan, Monali Monalisa, Kanwar Singh Nalwa, Anand Singh, Ashish Garg, Raju Kumar Gupta	2021	225	200-210

1470.	Journal of Materials Chemistry A	The effect of dimensionality on the charge carrier mobility of halide perovskites	Naveen Kumar Tailor, Yukta, Rahul Ranjan, Sudhir Ranjan, Tejasvini Sharma, Anand Singh, Ashish Garg, Kanwar Singh Nalwa, Raju Kumar Gupta, and Soumitra Satapathi	2021		Accepted
1471.	Superlattices and Microstructures	Improved hole injection/extraction using PEDOT:PSS interlayer coated onto high temperature annealed ITO electrode for efficient device performances,	Gnyaneshwar Dasi, Thyda Lavanya, Govindasamy Sathiyar, Raju Kumar Gupta, Ashish Garg, P. Amaladass, Kuppusamy Thangaraj	2021	156	106953
1472.	Sensors and Actuators A	Olefin-linked conjugated fluorescent oligomer: Design, synthesis, photophysical studies and detection of nitroaromatic compounds (NACs) in aqueous media	Govindasamy Sathiyar, Dhamodiran Mathivanan, Balasubramaniam Bhuvaneshwari, Ashish Garg, Raju Kumar Gupta, Anand Singh	2021	331	113026
1473.	Journal of Physics D: Applied Physics	Effects of 10 MeV Al ⁴⁺ ions irradiation on fluorine-doped tin oxide substrates for photovoltaic device applications	Anand Pandey, M. S. Patel, Dharendra K. Chaudhary, Shiv P. Patel, L. Sowjanya Pali, Ashish Garg, Lokendra Kumar	2021	54	275502
1474.	Journal of Materials Science:	Enhanced room temperature multiferroic behaviour of Ni doped Na _{0.5} Bi _{0.5} TiO ₃ ceramics	Rahul Goel; Rajat Syal; Nandini Sharma; Shobhna	2021	10.1007	s10854-021-05681-4

	Materials in Electronics		Dhiman; Arun Kumar Singh; Ashish Garg; Sanjeev Kumar			
1475.	Solar Energy Materials and Solar Cells	Determination of Defect States and Surface Photovoltage in PTB7:PC71BM based Bulk Heterojunction Solar Cells	Shailendra Kumar Gupta, Durgesh C. Tripathi, Ashish Garg and Sandeep K. Pathak	2021	224	110994
1476.	Energy Technology	Unveiling the Role of Graphene Oxide as an Interface Interlocking Ingredient in PVDF Based Multi-Layered Thin-film Capacitors for High Energy Density and Ultrafast Discharge Applications	Prateek, Ritamay Bhunia, Arnab Sakar, Sandeep Anand, Ashish Garg and Raju Kumar Gupta	2021	09	2000905
1477.	Solar Energy	, Inverted PTB7-Th:PC70BM Organic Solar Cells with 11.8% PCE via Incorporation of Gold Nanoparticles in ZnO Electron Transport Layer	Belal Usmani, Rahul Ranjan, Prateek, Raju Kumar Gupta, Shailendra Kumar Gupta, Kanwar Singh Nalwa and Ashish Garg	2021	214	220-230
1478.	Solar Energy	Low temperature annealing and performance of PTB7:PC71BM Organic Solar Cells, Solar Energy	Shailendra Kumar Gupta, Rahul Ranjan, Jyoti Yadav, Neha Chaturvedi, Kanwar Singh Nalwa and Ashish Garg	2021	213	27-35
1479.	The Journal of Physical Chemistry	Probing the Interface Activation in Designing Defect-Free Multi-Layered Polymer Nanocomposites for Dielectric Capacitor Applications	Prateek, Ritamay Bhunia, Ashish Garg, Raju Gupta	2020	124	222914-22924
1480.	Journal of Raman Spectroscopy	Temperature dependent X-ray diffraction and Raman Spectroscopy studies of polycrystalline YCrO3 ceramics	Ashish Mall, Barnita Paul, Ashish Garg and Rajeev Gupta	2020	51	537-545

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1481.	Materials Advances	Interface modulation in multi-layered BaTiO ₃ nanofibers/PVDF using PVP linker layer as adhesive for high energy density capacitor applications	Prateek, Shahil Siddiqui, Ritamay Bhunia, Narendra Singh, Ashish Garg, Raju Kumar Gupta	2020	1	680-688
1482.	Journal of Materials Chemistry A	Triboelectric Generator made of Mechanically Robust PVDF Film as Self-powered Autonomous Sensor for Wireless Transmission Based Remote Security System	Bushara Fatma, Shashikant Gupta, Chandrachur Chatterjee, Ritamay Bhunia, Vivek Verma and Ashish Garg	2020	8	15023-15033
1483.	Journal of Alloys and Compounds	Grain size dependence of electrical transport in magnetoelectric gallium ferrite ceramics	Ujjval Bansal, Vijay Singh, Kumar Brajesh, Rajeev Gupta and Ashish Garg	2020	847	156499
1484.	Solar Energy	A Review on Quantum Dot Sensitized Solar Cells: Past, Present and Future towards Carrier Multiplication with Possibility for Higher Efficiency	Anurag Sahu, Ashish Garg and Ambesh Dixit	2020	203	210-239
1485.	Journal of Applied Physics	Improved Ferroelectric Response of Pulsed Laser deposited BiFeO ₃ -PbTiO ₃ thin films around morphotropic phase boundary with interfacial PbTiO ₃ buffer layer	Kishor Kumar Sahoo, Brajesh Kumar, Rajesh Katoch, Ashish Garg and Rajeev Gupta,	2020	127	064101
1486.	Solar Energy Materials and Solar Cells	Role of PC60BM in passivation and improving degradation behaviour in regular planar perovskite solar cell	Rahul Ranjan, Belal Usmani, Sowjanya Pali, Sudhir Ranjan, Anand Singh, Ashish Garg and Raju Kumar Gupta	2020	207	110335

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Civil Engineering						
S. No.	Book Title	Editor(s)	Publisher	Year	Place	ISBN.
1.	Smart Parking in Fast Growing Cities: Challenges and Solutions	Stephan Winter and Salil Goel	TU Wien Academic Press	2021		978-3-85448-045-7
Economic Sciences						
2.	Contemporary Issues in Sustainable Development : The Case of India	Chakraborty, T., Mukherjee, D., & Saha, S.	Taylor & Francis Routledge	2020	New York	9781138227101 (Hard) 9781003141020 (e-book)
Electrical Engineering						
3.	Microgrids for Rural Areas: Research and case studies		IET Energy Engineering 160, UK	2020		ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
4.	Fundamentals and Innovations in Solar Energy		Springer Nature Singapore Pte Ltd	2021		ISBN 978-981-336-455-4 (Hardback)

5.	Intelligent Control of Robotic Systems	Laxmidhar Behera, Swagat Kumar, Prem Kumar Patchaikani, Ranjith Ravindranathan Nair, Samrat Dutta	Taylor & Francis Group	April 7, 2020	CRC Press	9781138597716
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6.	An Introduction to Indian Aesthetics: History, Theory, Theoreticians	Chandran, Mini and Sreenath V S	Bloomsbury	2021	New Delhi, India	
7.	Enable: English Language and Communication Skills (for Class XII)	Sudharshana, N. P. & Savitha, C.	Cambridge University Press	2021	India	
8.	<i>Naval</i>	Bagad, Prashant	Papyrus Prakashan Kalyan	2021	India	
9.	Religion and Secularity: Reconfiguring Islam in Contemporary India	Sudha Sitharaman and Anindita Chakrabarti	Orient Blackswan	2020	India	

Mechanical Engineering

10.	Drop Dynamics and Dropwise Condensation on Textured Surfaces	Sameer Khandekar and K. Muralidhar	Springer	May, 2020	450 pages	ISBN 978-3-030-48460-6
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11.	Acoustic Analysis and Design of Short Elliptical End-Chamber Mufflers	Akhilesh Mimani	Springer Nature, Singapore	2021	Singapore	978-981-10-4827-2 (Softcover) 978-981-10-4828-9 (eBook)
12.	Simulations and Optical Diagnostics for Internal Combustion Engines Current Status and Way Forward	Avinash Kumar Agarwal	Springer, Singapore	2020	Singapore	(DOI: 10.1007/978-981-15-0335-1 ISBN # 978-981-15-0335-1
13.	Advanced Combustion Techniques and Engine Technologies for the automotive Sector	Akhilendra Pratap Singh	Springer, Singapore	2020	Singapore	P 10.1007/978-981-15-0368-9; ISBN # 978-981-15-0368-9).
14.	Alternative Fuels and Their Utilization Strategies in Internal Combustion Engines	Akhilendra Pratap Singh	Springer, Singapore	2020	Singapore	10.1007/978-981-15-0418-1; ISBN # 978-981-15-0417-4)
15.	Solar Energy Systems, Challenges, and Opportunities	Himanshu Tyagi, Prodyut Chakraborty, Satvasheel Powar, Avinash Kumar Agarwal	Springer, Singapore	2020	Singapore	978-981-15-0675-8

16.	Measurement, Analysis, and Remediation of Environmental Pollutants	Tarun Gupta, Swatantra Pratap Singh, Prashant Rajput, Avinash Kumar Agarwal	Springer, Singapore	2020	Singapore	978-981-15-0540-9
17.	Paper Microfluidics Theory and Applications	Shantanu Bhattacharya, Sanjay Kumar, Avinash Kumar Agarwal	Springer, Singapore	2020	Singapore	
18.	Design and Development of Heavy-Duty Diesel Engines	P. A. Lakshminarayanan, Avinash Kumar Agarwal	Springer, Singapore	2020	Singapore	

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Chemical Engineering							
S. No.	Book Title	Author(s)	Publisher	Editor	Year	Page numbers	ISBN.
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1.	3D Graphene-Based Scaffolds with High Conductivity and Biocompatibility for Applications in Microbial Fuel Cells/ Graphene-Based 3D Macrostructures for Clean Energy and Environmental Applications	Ashish Yadav and Nishith Verma	Royal Society of Chemistry (RSC)	Rajasekhar Bala and Shamik Chowdhury	2021		
Civil Engineering							
2.	Smart Parking in	Stephan	TU Wien	Stephan Winter	2021	2-6	978-3-85448-

	Fast Growing Cities: Challenges and Solutions	Winter and Salil Goel	Academic Press	and Salil Goel			045-7
3.	Smart Parking in Fast Growing Cities: Challenges and Solutions	Salil Goel	TU Wien Academic Press	Stephan Winter and Salil Goel	2021	42-60	978-3-85448-045-7
4.	Smart Parking in Fast Growing Cities: Challenges and Solutions	Stephan Winter and Salil Goel	TU Wien Academic Press	Stephan Winter and Salil Goel	2021	99-103	978-3-85448-045-7
5.	Smart Parking in Fast Growing Cities: Challenges and Solutions	Subhrasankha Dey, Salil Goel, Martin Tomko and Stephan Winter	TU Wien Academic Press	Stephan Winter and Salil Goel	2021	184-198	978-3-85448-045-7
6.	Numerical analysis of water movement in agricultural fields with heterogeneous unsaturated soils.	E. Y. Gedilu, and R. Ojha	Springer Singapore	Chandrashekhar Bhuiyan Wolfgang-Albert Flügel and Sharad Kumar Jain	2021	3-10	
7.	Monthly variation in near surface air temperature lapse rate across Ganga Basin, India	R. Ojha	Springer Nature	Manvendra Singh Chauhan and Chandra Shekhar Prasad Ojha	2021	149-160	
Earth Sciences							
8.	Geomorphology, Land use / land	Sinha, R.,	Springer	Finlayson, C.	2020	231-250	978-3-030-33424-6

	cover and sedimentary environments of the Chilika Lake basin. In: Ecology, Conservation and Restoration of Chilika Lagoon, India	Chandrasekaran, R. and Awasthi, N.		Max, Gurdeep Rastogi, Deepak R. Mishra, Ajit K. Pattnaik			
9.	Late Quaternary evolution and morphostratigraphic development of the Ganga Plains. In: Geodynamics of the Indian Plate.	Khanolkar, S., Tandon, S.K. and Sinha, R.	Springer	Gupta, N. and Tandon, S.K.	2020	467-497	978-3-030-15989-4
10.	On the contemporaneity of the Saraswati River and the Harappan civilization in NW India: constraints from subsurface chrono-stratigraphy and sedimentology. In: Saraswati: the River par Excellence.	Sinha, R., Singh, Ajit and Khan, Imran	The Asiatic Society	S.K. Acharyya, Kunal Ghosh and Amal Kar	2020	117-134	9788194692331
11.	Human impacts on megafans and deltas. In: Treatise on Geomorphology	Sinha, R.	Elsevier	James Allan	2021	1-26	9780124095489
Economic Sciences							
12.	Productive	Khati, K.	Taylor &	Chakraborty,	2020	50-71	9781003141

	efficiency of agricultural sector in Uttar Pradesh. In Contemporary Issues in Sustainable Development	S., Bhandari, A. K., & Mukherjee, D.	Francis Routledge	T., Mukherjee, D., & Saha, S.			020 (e-book)
13.	Agricultural productivity in Bihar and its determinants. In Contemporary Issues in Sustainable Development	Sapre, A., Singh, M. K., & Mukherjee, D.	Taylor & Francis Routledge	Chakraborty, T., Mukherjee, D., & Saha, S.	2020	72-90	9781003141020 (e-book)
14.	Handbook of Research on empirical aspects of strategic trade negotiations and management	Sachin Angurala and Somesh Kumar Mathur	IGI Global Publisher of Timely knowledge	Nuno Crespo and Nadia Simones, Lisbon, Portugal	June 2021		
15.	Handbook of Research on empirical aspects of strategic trade negotiations and management	Naman Aggarwal and Somesh K Mathur	IGI Global Publisher of Timely knowledge	Nuno Crespo and Nadia Simones, Lisbon, Portugal	June 2021		
16.	COVID-19 Challenges for the Indian Economy: Trade and Foreign	Mathur S.K	Joint Publication of EEPC and RIS, Ministry of	Prabir De and Suranjan Gupta	2020		

	Policy Effects		External Affairs, GOI				
Electrical Engineering							
17.	Overview of microgrids for rural areas and low-voltage applications in the book entitled Microgrids for Rural Areas: Research and Case Studies	Rajeev Kumar Chauhan, Kalpana Chauhan, Sri Niwas Singh	IET Energy Engineering 160, UK		2020		ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
18.	Conclusions and Future Scope in the book entitled Microgrids for Rural Areas: Research and Case Studies	Rajeev Kumar Chauhan, Kalpana Chauhan, Sri Niwas Singh	IET Energy Engineering 160, UK		2020		ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
19.	Control Technique for Integration of Smart DC Microgrid to the Utility Grid, in the book entitled Microgrids for Rural Areas: Research and Case Studies	Mahesh Kumar and SN Singh	IET Energy Engineering 160, UK	Kalpana Chauhan, Rajeev Chauhan and SN Singh	2020		ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
20.	Power Systems and Power Plant Control (Section 4:Control of FACTS Devices),	SN Singh	John Wiley & Sons (IEEE Press Series on	Kwang Y Lee and Zita Vale	2020		

	in the Book entitled Applications of Modern Heuristic Optimization Methods in Power and Energy Systems		Power Engineering)				
21.	Front-End Power Converter Topologies for Plug-in Electric Vehicles, in the Book entitled Emerging Power Converters for Renewable Energy and Electric Vehicles Modeling, Design, and Control	Chandra Sekar, Asheesh K Singh, Sri Niwas Singh, Vassilios G Agelidis	CRS press 2021	Md Rabiul Islam, Md Rakibuzzaman Shah, Mohd. Hasan Ali	2021		ISBN 9780367528034
22.	Introduction to Solar Energy, in the Book entitled Fundamentals and Innovations in Solar Energy	SN Singh, Prabhakar Tiwari and Sumut Tiwari	Springer Nature Singapore Pte Ltd 2021	SN Singh, Prabhakar Tiwari and Sumit Tiwari	2021	1-9	ISBN: 978-981-336-455-4
23.	Impact of High-k Dielectric on the Gate-Induced Drain Leakage of Multi-Gate FETs	Varshini K. Amirtha, Shubham Sahay	CRC Press	Shubham Tayal, Parveen Singla, J. Paulo Davim	2021	71-88	9781003121589
24.	Book Series: Interdigital Sensors Chapter: IDC Planar RF Sensors for Dielectric Testing	M. Jaleel Akhtar, Nilesh K Tiwari and G. Govind	Springer Nature Switzerland AG Gewerbestras	Dr. Subhas Chandra Mukhopadhyay	2020	199-229	978-1-53615-316-3

	and Applications		se 11, 6330 Cham, Switzerland, 2020.				
25.	Imaging Sensors and Application, Chapter 3: Smart Visual Sensors in Robotic Systems	Pooja Agrawal and Laxmidhar Behera	IET Press	Wuqiang Yang	July 2020	71 –106	Book DOI: 10.1049/PBC E116E, Chapter DOI: 10.1049/PBC E116E_ch3, ISBN: 97817856149 72
26.	In Advances on Robotic Item Picking - Description of IITK-TCS System for ARC 2017	Anima Majumder, Olyvia Kundu, Samrat Dutta, Swagat Kumar, and Laxmidhar Behera	Springer	Albert Causo Joseph Durham Kris Hauser Kei Okada Alberto Rodrigu ez	May 2020	113-124	978-3-030- 35679-8
27.	Spectrum above Radio Bands," in Spectrum Sharing: The Next Frontier in Wireless Networks,	Abhishek Gupta, Adrish Banerjee	Wiley	Constantinos B. Papadias, Tharmalingam Ratnarajah, Dirk T. M. Slock	2020	75-96	97811195515 39
28.	'Fundamentals of Network Densification," in 5G and Beyond: Fundamentals and Standards	A. K. Gupta, Nithin V S and Harpreet S Dhillon,	Springer	Lin, Xingqin, Lee, Namyoon	2021		978-3-030- 58197-8

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29.	Anthropology of Islam in Contemporary India: A Conceptual Overview	Sudha Sitharaman & Anindita Chakrabarti	Orient Blackswan	Sudha Sitharaman & Anindita Chakrabarti	2020		
30.	Adjudication of Personal Law and the Question of Secularity: An Analysis of Judicial Practice in Sharia Courts of Uttar Pradesh	Suchandra Ghosh and Anindita	Orient Blackswan	Sudha Sitharaman & Anindita Chakrabarti	2020		

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31.	Socio-economic and Eco-biological Dimensions of Climate Change: Strategies for Resource Use, Conservation and Ecological Sustainability	Shalabh and Subhra Sankar Dhar	Springer	Niranjan Roy, Shubhadeep Roychoudhury, Sunil Nautiyal , Sunil K. Agarwal and Sangeeta Baksi,	2020	351-378	978-3-030-32462-9
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32.	Behavior of Nano-enhanced Phase Change Material in a Spherical Thermal Battery During Unrestricted Melting: in Advances in Energy Research, Vol. 1	Kharbanda J.S., Yadav S.K., Soni V., Kumar A.	Springer, Singapore	Singh S., Ramadesigan V.	2020	331-343	9789811526657
33.	Behavior of Nano-	Soni V.,	Springer,	Singh S.,	2020	309-319	97898115266

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34.	Open-Source Designing for Additive Manufacturing of Metallic Triply Periodic Minimal Surfaces: in Advances in Lightweight Materials and Structures	Chavan H., Mishra A.K., Kumar A.	Springer, Singapore	Praveen Kumar A., Dirgantara T., Krishna P.V.	2020	635-643	97898115782 67
35.	Tribological Properties of Composite Materials for Automotive Applications: in Tribological Applications of Composite Materials	Upadhyay R.K., Kumar A.	Springer, Singapore	Hameed Sultan M.T., Mohd Jamir M.R., Abdul Majid M.S., Azmi A.I., Saba N.	2021	51-69	97898115963 46
36.	Micro-Indentation Studies of Polymers: in Reference Module in Materials Science and Materials Engineering	Upadhyay R.K., Kumar A.	Elsevier		2021		97801280358 18
37.	Polymer Brush	Manjesh K.	Springer,	Katiyar J.,	2020	15-32	978-3-030-

	Based Tribology. In: Tribology in Materials and Applications. Materials Forming, Machining and Tribology.	Singh	Cham.	Ramkumar P., Rao T., Davim J.			47451-5
38.	Aqueous Lubrication. In: Tribology and Sustainability	Manjesh K. Singh	CRC Press	Ankush Raina, Jitendra Kumar Katiyar, Mir Irfan Ul Haq, R. Arvind Singh, S. Jayalakshmi	2021	397-414	978-1-000- 43554-2
39.	Introduction to Combustion Simulations and Optical Diagnostic T Diagnostics for Internal Combustion Engines	Akhilendra Pratap Singh, Pravesh Chandra Shukla, Joonsik Hwang, Avinash Kumar Agarwal		Akhilendra Pratap Singh, Pravesh Chandra Shukla, Joonsik Hwang, Avinash Kumar Agarwal		Chapter 1, pp 3- 6	
40.	Modelling Aspects for Adaptation of Alternative Fuels in IC Engines	Hardikk Valera, Dhananjay Kumar, Akhilendra Pratap Singh, Avinash Kumar Agarwal	Springer, Singapore	Akhilendra Pratap Singh, Pravesh Chandra Shukla, Joonsik Hwang, Avinash Kumar Agarwal	2020	P Chapter 2, pp 9-26	
41.	Laser Ignition Technology for Gaseous Fuelled	Dhananjay Kumar, Avinash	Springer, Singapore	Pratap Singh, Pravesh Chandra Shukla,	2020		ISBN # 978- 981-15-0335- 1

	Automotive Engines,” Published in Simulations and Optical Diagno	Kumar Agarwal		Joonsik Hwang, Avinash Kumar Agarwal			
42.	Introduction to Advanced Combustion Techniques and Engine Technology for the Automotive Sector	Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal		: Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal		Chapter 1, pp 3-6	
43.	Development of Methanol Fuelled Two-Wheeler for Sustainable Mobility	Tushar Agarwal, Akhilendra Pratap Singh, Avinash Kumar Agarwal	Springer, Singapore	Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal	2020	Chapter 2, pp 9-36	
44.	Material Compatibility Aspects and Development of Methanol-Fueled Engines,” Published in Advanced Combustion	Vikram Kumar, Avinash Kumar Agarwal	Springer, Singapore	Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal	2020		ISBN # 978-981-15-0368
45.	Prospects of Methanol-Fuelled Carburetted Two Wheelers in Developing Countries	Hardikk Valera, Akhilendra Pratap Singh, Avinash Kumar	Springer	Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal		Chapter 4, pp 53-73	

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46.	Prospects of Gasoline Compression Ignition (GCI) Engine Technology in Transport Sec the Automotive Sector	Vishnu Singh Solanki, Nirendra Nath Mustafi, Avinash Kumar Agarwal	Springer	Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal			Chapter 5, pp 77-110
47.	Overview, Advancements, and Challenges in Gasoline Direct Injection Engine Technology	Ankur Kalwar, Avinash Kumar Agarwal	Springer, Singapore	Akhilendra Pratap Singh, Nikhil Sharma, Ramesh Agarwal, Avinash Kumar Agarwal	2020		ISBN # 978-9
48.	Introduction to Alternative Fuels and Their Utilization Strategies i Strategies in Internal Combustion Engines	Akhilendra Pratap Singh, Nirendra N. Mustafi, Yogesh C. Sharma, Avinash Kumar Agarwal		Akhilendra Pratap Singh, Yogesh C. Sharma, Nirendra N. Mustafi, Avinash Kumar Agarwal		Chapter 1, pp 3-6	
49.	Future Automotive Powertrains for India: Methanol Versus Electric Vehicles,” Published in Alternative Fuels and Th	Hardikk Valera, Avinash Kumar Agarwal	Springer, Singapore	Akhilendra Pratap Singh, Yogesh C. Sharma, Nirendra N. Mustafi, Avinash Kumar Agarwal	2020		ISBN # 978-981-15
50.	Combustion and Emission	Nirendra N. Mustafi,	Springer, Singapore	Akhilendra Pratap Singh,	2020		

	Characteristics, and Emission Control of CNG Fueled Vehicles	Avinash Kumar Agarwal		Yogesh C. Sharma, Nirendra N. Mustafi, Avinash Kumar Agarwal			
51.	Biogas for Transport Sector: Current Status, Barriers, and Path Forward for Large-Scale Adaptation	Nirendra N. Mustafi, Avinash Kumar Agarwal	Springer, Singapore	Akhilendra Pratap Singh, Yogesh C. Sharma, Nirendra N. Mustafi, Avinash Kumar Agarwal	2020		
52.	Introduction to Solar Energy: Systems, Challenges, and Opportunities	Himanshu Tyagi, Prodyut R. Chakraborty, Satvasheel Powar, Avinash Kumar Agarwal	Springer, Singapore	Chakraborty, Satvasheel Powar, Avinash Kumar Agarwal	2020		ISBN # 978-981-15-0675-8
53.	Introduction of Measurement, Analysis, and Remediation of Environmental Pollutants	Tarun Gupta, Swatantra Pratap Singh, Prashant Rajput, Avinash Kumar Agarwal	Springer, Singapore	Tarun Gupta, Swatantra Pratap Singh, Prashant Rajput, Avinash Kumar Agarwal		Chapter 1, pp 1-5	
54.	A Historical Perspective on Paper Microfluidic Based Point-of-Care	Shantanu Bhattacharya, Sanjay Kumar,	Springer, Singapore	Shantanu Bhattacharya, Sanjay Kumar, Avinash Kumar	2020	Chapter 1, pp 1-5	ISBN # 978-981-15-0489-1

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55.	Chemical Solution Synthesis for Materials Design and Thin Film Device Applications	Pandey M., Rashik, M., Bhattacharya S.	Elsevier Inc.	Soumen Das, Sandip Dhara	2021	349-368	978-0-12-819718-9
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56.	ICOL-2019, Springer Proceedings in Physics, vol 258.	Jachpure D., Vijaya R.	Springer, Singapore	Singh K., Gupta A.K., Khare S., Dixit N., Pant K. (eds)	2021	Chapter 96, pp. 419-422	978-981-15-9258-4

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Aerospace Engineering							
S. No.	Conference Name	Conference Title	Author(s)	Year	Volume	Page numbers (start to end)	Location.
1.	Proceedings of the 2021 AIAA SciTech Forum	Inverse Geometric Guidance Strategy for a Three Body Differential Game	Saswat Priyadarshi Nayak, Aditya Pratap Singh Rajawat, and Mangal Kothari	2021			
2.	Proceedings of the IEEE International Conference on Unmanned Aircraft Systems (ICUAS), 2020	Robust Geometric Control of a Helicopter using Sliding Mode Control	Akhil B Krishna, Arijit Sen, and Mangal Kothari	2020			
3.	IEEE International Conference on Unmanned Aircraft Systems	GPS Denied Localization and Magnetometer-Free Yaw	Naveen Balaji, Mangal Kothari, Abhishek	2020			

	(ICUAS)	Estimation for UAVs, Proceedings					
4.	Proceedings of the 21st IFAC World Congress	A Containment Protocol using Incomplete Agent Information over a Digraph	Arijit Sen, Soumya R Sahoo, and Mangal Kothari	2020			
Biological Sciences and Bioengineering							
5.	ICBMI 2020	Self-contracting and stiffening hydrogel promotes cartilage regeneration	Aman Mahajan and Katti D.S.	Dec. 6- Dec. 9, 2020			E-conference
6.	ICBMI 2020	A biomimetic scaffold for ligament tissue engineering	Sriram M and Katti D.S.	Dec. 6- Dec. 9, 2020			E-conference
7.	ICBMI 2020	A nanoparticle-based combination therapy for breast cancer via downregulation of Wnt signalling	Garima Lohiya and Katti D.S.	Dec. 6- Dec. 9, 2020			E-conference
8.	65 th Annual Biophysical Society Meeting	Structural Dynamics and Energetics of Glucose Transport via	A. Gupta and R. Sankararamakrishnan	Feb 22-26, 2021	Biophys . J. 120	73A-73A	Virtual

		Rice SWEET Sugar Transporter					
9.	65 th Annual Biophysical Society Meeting	Membrane Binding of Flaviviral Nonstructural Protein 1: Comparative Simulations of ZIKA and Dengue Virus NS1 Proteins in Pope Bilayers	R. Muthukumaran and R. Sankararamakrishnan	Feb 22-26, 2021	Biophys . J. 120	79A-79A	Virtual
10.	65 th Annual Biophysical Society Meeting	A Computational Pipeline to Design BH3-Mimetic Peptide Inhibitors that Can Bind Specifically to Mcl-1 Or Bcl-X-L: Role of Non-Hotspot Residues	C. N. Reddy, N. Manzar, B. Ateeq and R. Sankararamakrishnan	Feb 22-26, 2021	Biophys . J. 120	177A-178A	Virtual
Chemical Engineering							
11.	Proceedings of the International Conference on Information Visualisation	Metaphors We See by	Panda S., Roy S.T.	2020	2020-September	704-707	
Civil Engineering							
12.	Proceedings of	Towards the	Boodala J.,	2020		-	

	CONECCT 2020 - 6th IEEE International Conference on Electronics, Computing and Communication Technologies	derivation of Multiple Representation Database	Dikshit O., Balasubramanian N.				
13.	E3S Web of Conferences	A numerical parametric study on the efficiency of prestressed geogrid reinforced soil	Das S.K., Samadhiya N.K.	2020	205	-	
14.	2021 International Conference on COMmunication Systems and NETworkS, COMSNETS 2021	Camera-based Smart Traffic State Detection in India using Deep Learning Models	Agarwal N., Jangid A., Sharma A., Kumar N., Kumar M., Kumar P., Chakraborty P.	2021		690-696	
15.	ISPRS Congress 2021	A Case Study of Pedestrian Positioning with UWB and UAV cameras	Masiero, A., Dabove, P., Di Pietra, V., Piragnolo, M., Vettore, A., Cucchiaro, S., Guarnieri, A., Tarolli, P., Toth, C., Gikas, V., Perakis, H., Chiang, K., Ruotsalainen, L., Goel, S., and Gabela, J.	2021	XLIII-B1-2021	111-116	Nice, France

16.	ISPRS Congress 2020	Indoor Navigation and Mapping: Performance Analysis of UWB-based Platform Positioning	Masiero, A., Perakis, H., Gabela, J., Toth, C., Gikas, V., Retscher, G., Goel, S., Kealy, A., Koppanyi, Z., Blaszcak-Bak, W., Li, Y., and Grejner-Brzezinska, D.	2020	XLIII-B1-2020	549-555	Nice, France
17.	4 th Conference of Transportation Research Group of India, December 17-20, 2017	Effect of gradation of fine aggregates on creep deformation of fine aggregate mix (FAM) and asphalt mix	Kuity, A., Das, A.	2020	Lecture Notes in Civil Engineering, 45	737–745	IIT Bombay, Mumbai
18.	IACMAG Symposium, March 5-7, 2019	Study on effect of particle shape on interlocking	Bindal, A.K., Das, A., Das, A.	2020	Lecture Notes in Civil Engineering, 56	455–466	IIT Gandhinagar, Gandhinagar
19.	WCTR 2019, May 26-31, 2019	Estimation of binder quantity in a binary blend of asphalt binders using FTIR	Bora, B., Das, A.	2020	Transportation Research Procedia, 48	3756–3763	IIT Bombay, Mumbai
20.	11 th International Conference on Road and Airfield Pavement	Characterization of pavement surface undulations using side view	Jain, S., and Das, A.,	2021	<i>IOP Conf. Ser.: Mater.</i>	012016	Kuala Lumpur

	Technology, July 10-12, 2019.	images,			Sci. Eng. 1075		
21.	11 th International Conference on Road and Airfield Pavement Technology, July 10-12, 2019.	Blending of RAPM samples with virgin binder : a study using FTIR spectroscopy,	Bora, B., and Das, A.,	2021	<i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 1075	012017	Kuala Lumpur
22.	Second ASCE India Conference, March 2-4, 2020	“Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies” (CRSIDE2020)	Das, A, and Roy Chowdhury, A N	2020			
23.	17 th World Conference on Earthquake Engineering, Sep 13-18, 2020	A shape memory alloy based self-centring damping device for seismic applications	Kolay, C. and Kumar A	2020			Sendai, Japan
24.	17 th World Conference on Earthquake Engineering, Sep 13-18, 2020	Development and experimental validation of a self-centring articulated quadrilateral bracing system	Kolay, C. and Kakoty H	2020			Sendai, Japan
25.	Proceedings of the IEEE/CVF Conference on	The 5th AI City challenge	Naphade M., Wang S., Anastasiu D. C.,	2021		4263-4273	

	Computer Vision and Pattern Recognition		Tang Z., Chang M. C., Yang X., Yao Y., Zheng L., Chakraborty P., Lopez C. E., Sharma A., Feng Q., Ablavsky V., Sclaroff S.				
26.	HYDRO 2020 INTERNATIONAL National Institute of Technology Rourkela 25 th International Conference on Hydraulics	Comparison of soil water movement models with experimental observations in agricultural fields	E. Y. Gedilu and R. Ojha	2021		1-10	Rourkela
27.	International Virtual Conference on Innovative Trends in Hydrological and Environmental Systems (ITHES- 2021)	A Comparative Analysis of Models Describing Temporal Variability of Soil Hydraulic Properties	S. Kumar and R. Ojha	2021		1-10	Warangal
28.	30 th Goldschmidt Conference	Relative kinetics of precipitation and adsorption of arsenic(V) in systems with dissolved iron(II).	Nilling, J.J. and Singh, A.	2020			Virtual (June)
29.	30 th Goldschmidt Conference	Analysis of uranium	<u>Sujathan, S.</u> and Singh, A.	2020			Virtual (June)

		geochemistry in Indian groundwaters with a unified thermodynamic model.					
30.	260 th American Chemical Society (ACS) National Meeting	Role of arsenic-resistant bacteria in controlling arsenic concentrations in groundwater.	Verma, A., Murugan, P.A., Matheshwaran, S. and Singh, A.	2020		ENVR 140	Virtual (August)
31.	Geological Society of America Conference	Effect of manganese on fluoride mobilization in high carbonated groundwater	Mohapatra, A.K. and Singh, A.	2020			Virtual (October)
32.	50 th JdA: Journées des Actinides Conference	A unified predictive model for uranium geochemistry relevant to groundwater systems -	<u>Sujathan, S.</u> and Singh, A.	2021			Brittany France and Virtual (March)
33.	Geo-congress-2020, ASCE	Static and Dynamic Properties of Expansive Soil Stabilized with Industrial Waste	Parik, P. and Patra, N. R.	2020			
34.	Geo-congress-2020, ASCE	Behaviour of Disconnected and Connected Piled-Raft Foundations Subjected to	Tarenia, K. and Patra, N. R.	2020			

		Vertical and Lateral Loads Simultaneously					
Cognitive Science							
35.	Annual Conference of the Cognitive Science Society	Better learning of partially diagnostic features leads to less unidimensional categorization in supervised category learning.	Thomas, S., & Srinivasan, N.	2020		3444-3450	Canada
36.	International Conference on Software Engineering	Characterizing the Pedagogical Benefits of Adaptive Feedback for Compilation Errors by Novice Programmers.	Ahmed, U., Sindhgatta, R., Srivastava, N., Karkare, A.	2020		139-150	South Korea
37.	Annual Conference of the Cognitive Science Society	Limits on Predictability of Risky Choice Behavior	Sifar, A., Srivastava, N.	2020		23-28	Canada
38.	Annual Conference of the Cognitive Science Society	Inducing Preference Reversals by Manipulating Revealed Preferences	Balakrishnan, H., Jagga, S., Srivastava, N.	2020		2695-2701	Canada
Computer Science and Engineering							

39.	Proceedings - IEEE International Conference on Robotics and Automation	T*: A Heuristic Search Based Path Planning Algorithm for Temporal Logic Specifications	Khalidi D., Gujarathi D., Saha I.	2020		8476-8482	
40.	Proceedings - International Symposium on Computer Architecture	Bouquet of Instruction Pointers: Instruction Pointer Classifier-based Spatial Hardware Prefetching	Pakalapati S., Panda B.	2020	2020-May	118-131	
41.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	CPWC: Contextual Point Wise Convolution for Object Recognition	Mazumder P., Singh P., Namboodiri V.	2020	2020-May	4152-4156	
42.	Annual Conference on Innovation and Technology in Computer Science Education, ITiCSE	Choosing Code Segments to Exclude from Code Similarity Detection	Simon, Karnalim O., Sheard J., Dema I., Karkare A., Leinonen J., Liut M., Mccauley R.	2020		1-19	
43.	Annual Conference on Innovation and Technology in Computer Science Education, ITiCSE	Selection of Code Segments for Exclusion from Code Similarity Detection	Simon, Karnalim O., Sheard J., Dema I., Karkare A., Leinonen J., Liut M.,	2020		500-501	

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44.	Proceedings - 2020 IEEE Conference on Industrial Cyberphysical Systems, ICPS 2020	Intrusion Detection & Prevention in Programmable Logic Controllers: A Model-driven Approach	Negi R., Dutta A., Handa A., Ayyangar U., Shukla S.K.	2020		215-222	
45.	IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops	Minimizing supervision in multi-label categorization	Rajat, Varshney M., Singh P., Namboodiri V.P.	2020	2020-June	93-102	
46.	Proceedings of the International Symposium on Symbolic and Algebraic Computation, ISSAC	Special-case algorithms for blackbox radical membership, nullstellensatz and transcendence degree	Garg A., Saxena N.	2020		186-193	
47.	ACM International Conference Proceeding Series	Contextual Reactive Pattern on Chatbot building Platforms	Srivastava S., Kalra S., Prabhakar T.V.	2020		-	
48.	Proceedings of the International Joint Conference on Neural Networks	Passive Batch Injection Training Technique: Boosting Network Performance by	Singh P., Mazumder P., Namboodiri V.P.	2020		-	

		Injecting Mini-Batches from a different Data Distribution					
49.	Proceedings of the International Joint Conference on Neural Networks	SkipConv: Skip Convolution for Computationally Efficient Deep CNNs	Singh P., Namboodiri V.P.	2020		-	
50.	2020 24th International Symposium on VLSI Design and Test, VDAT 2020	Automatic Inverse Operation Detection and its Impact in High-level Synthesis	Kalita P.K., Chouksey R., Karfa C.	2020		-	
51.	28th Annual European Symposium on Algorithms, ESA 2020	Mincut sensitivity data structures for the insertion of an edge	Baswana S., Gupta S., Knollmann T.	2020	173	12:1 -- 12:14	
52.	Mathematical Foundations of Computer Science (MFCS 2020)	Randomness and effective dimension of continued fractions	Nandakumar S., Vishnoi P.	2020	170	-	
53.	Mathematical Foundations of Computer Science (MFCS 2020)	Efficient isolation of perfect matching in $O(\log n)$ genus bipartite graphs	Gupta C., Sharma V.R., Tewari R.	2020	2020-Aug	43:1 - 43:13	
54.	Discrete and Continuous Dynamical Systems	Prey-predator model with nonlocal and	Banerjee M., Mukherjee N., Volpert V.	2020	13	2109-2120	

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55.	Parallel Architectures and Compilation Techniques - Conference Proceedings, PACT	A Methodology for Principled Approximation in Visual SLAM	Pei Y., Biswas S., Fussell D.S., Pingali K.	2020		373-386	Online
56.	RecSys 2020 - 14th ACM Conference on Recommender Systems	Using conceptual incongruity as a basis for making recommendations	Shandhilya T., Srivastava N.	2020		557-561	
57.	Proceedings of the 20th Conference on Formal Methods in Computer-Aided Design, FMCAD 2020	Distributed Bounded Model Checking	Chatterjee P., Roy S., Diep B.P., Lal A.	2020		47-56	
58.	Proceedings - 5th IEEE European Symposium on Security and Privacy Workshops, Euro S and PW 2020	Reverse Engineering the Stream Prefetcher for Profit	Rohan A., Panda B., Agarwal P.	2020		682-687	
59.	Proceedings - 2020 IEEE International Conference on Humanized Computing and Communication	Desirable Features of a Chatbot-building Platform	Srivastava S., Prabhakar T.V.	2020		61-64	

	with Artificial Intelligence, HCCAI 2020						
60.	Proceedings - IEEE International Conference on Cluster Computing	MAP: A Visual Analytics System for Job Monitoring and Analysis	Pal A., Malakar P.	2020	2020-September	442-448	
61.	IEEE International Conference on Intelligent Robots and Systems	Learning to Switch CNNs with Model Agnostic Meta Learning for Fine Precision Visual Servoing	Raj R., Namboodiri V.P., Behera L.	2020		10210-10217	
62.	International Conference on Information and Knowledge Management, Proceedings	How and Why is An Answer (Still) Correct? Maintaining Provenance in Dynamic Knowledge Graphs	Gaur G., Bhattacharya A., Bedathur S.	2020		405-414	
63.	IEEE/IFIP International Conference on VLSI and System-on-Chip, VLSI-SoC	Mining Hyperproperties from Behavioral Traces	Rawat M., Muduli S.K., Subramanyan P.	2020	2020-October	88-93	
64.	IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers,	HyperFuzzing for SoC Security Validation	Muduli S.K., Takhar G., Subramanyan P.	2020	2020-November	-	

	ICCAD						
65.	Proceedings - 2020 IEEE International Conference on Blockchain, Blockchain 2020	Decentralized Device Authentication Model using the Trust Score and Blockchain Technology for Dynamic Networks	Subramanian V., Rajendra Y., Sahai S., Shukla S.K.	2020		116-125	
66.	Proceedings - 2020 IEEE International Conference on Blockchain, Blockchain 2020	Verity: Blockchain Based Framework to Detect Insider Attacks in DBMS	Sahai S., Atre M., Sharma S., Gupta R., Shukla S.K.	2020		26-35	
67.	IEEE Region 10 Humanitarian Technology Conference, R10-HTC	MICD - A Framework for Designing Micro-Conclusions for Micro-Lectures	Srivastava S., Prabhakar T.V.	2020	2020-December	-	
68.	Proceedings - International Symposium on High-Performance Computer Architecture	Zero Directory Eviction Victim: Unbounded Coherence Directory and Core Cache Isolation	Chaudhuri M.	2021	2021-February	277-290	
69.	Proceedings - International Conference on Computational Science	Adaptive and Efficient Transfer for Online Remote Visualization of	Malakar P., Natarajan V., Vadhiyar S.	2020	2020-June	674-693	

		Critical Weather Applications					
70.	Conference on Algorithms and Discrete Applied Mathematics 2021	On algorithms to find p-ordering	Gulati A, Chakrabarti S, Mittal R	2021	2021-Jan	333-345	
71.	Computer Science in Russia (CSR 2020)	Randomized and Symmetric Catalytic Computation	S Datta, C Gupta, R Jain, V Sharma, R Tewari	2020	2020-Jul	211-223	
72.	30th The Web Conference (TheWebConf – formerly WWW)	ECLARE: Extreme Classification with Label Graph Correlations	Mittal A., Sachdeva N., Agrawal S., Agarwal S., Kar P., and Varma M	2021			Online
73.	14th ACM International Conference on Web Search and Data Mining (WSDM)	DECAF : Deep Extreme Classification with Label Features	Mittal A., Dahiya K., Agrawal S., Saini D., Agarwal S., Kar P., and Varma M	2021			Online
74.	21st International Conference on Artificial Intelligence in Education (AIED)	MACER: A Modular Framework for Accelerated Compilation Error Repair	Chhatbar D., Ahmed U. Z., and Kar P.	2020			Online
75.	International Conference on Software Engineering (ICSE 2020)	Characterizing the Pedagogical Benefits of Adaptive Feedback for Compilation	Umair Z. Ahmed, Nisheeth Srivastava, Renuka Sindhgatta &	2020			Online

		Errors by Novice Programmers	Amey Karkare				
76.	International Conference on Computational Linguistics (CoLING)	Adapting a Language Model for Controlled Affective Text Generation	Tushar Goswamy, Ishika Singh, Ahsan Barkati, and Ashutosh Modi	2020		2787–2801	Online
77.	Proceedings of the Second Workshop on Financial Technology and Natural Language Processing	IITK at the FinSim Task: Hypernym Detection in Financial Domain via Context-Free and Contextualized Word Embeddings	Vishal Keswani, Sakshi Singh, Ashutosh Modi	2020		87-92	Online
78.	Proceedings of the 14th Workshop on Semantic Evaluation (SemEval-2020)	problemConqueror at SemEval-2020 Task 12: Transformer and Soft Label-based Approaches	Karishma Laud, Jagriti Singh, Randeep Kumar Sahu, Ashutosh Modi	2020		2123–2132	Online
79.	Proceedings of the 14th Workshop on Semantic Evaluation (SemEval-2020)	newsSweeper at SemEval-2020 Task 11: Context-Aware Rich Feature Representations for Propaganda Classification	Paramansh Singh, Siraj Sandhu, Subham Kumar, Ashutosh Modi	2020		1764–1770	Online

80.	Proceedings of the 14th Workshop on Semantic Evaluation (SemEval-2020)	IITK at SemEval-2020 Task 10: Transformers for Emphasis Selection	Vipul Singhal, Sahil Dhull, Rishabh Agarwal, Ashutosh Modi	2020		1665–1670	Online
81.	Proceedings of the 14th Workshop on Semantic Evaluation (SemEval-2020)	BAKSA at SemEval-2020 Task 9: Bolstering CNN with Self-Attention for Sentiment Analysis of Code Mixed Text	Ayush Kumar, Harsh Agarwal, Keshav Bansal, Ashutosh Modi	2020		1221–1226	
82.	Proceedings of the 14th Workshop on Semantic Evaluation (SemEval-2020)	IITK at SemEval-2020 Task 8: Unimodal and Bimodal Sentiment Analysis of Internet Memes	Vishal Keswani, Sakshi Singh, Suryansh Agarwal, Ashutosh Modi	2020		1135–1140	
83.	Proceedings of the 14th Workshop on Semantic Evaluation (SemEval-2020)	CS-NET at SemEval-2020 Task 4: Siamese BERT for ComVE	Soumya Ranjan Dash, Sandeep Routray, Prateek Varshney, Ashutosh Modi	2020		501–506	
84.	Proceedings of the Fourteenth Workshop on Semantic Evaluation (SemEval-2020)	IITK-RSA at SemEval-2020 Task 5: Detecting Counterfactuals	Anirudh Anil Ojha, Rohin Garg, Shashank Gupta, Ashutosh Modi	2020		458–467	

85.	European Chapter of the Association for Computational Linguistics (EACL)	Adv-OLM: Generating Textual Adversaries via OLM	Vijit Malik, Ashwani Bhat, and Ashutosh Modi	2021		841–849	Online
86.	Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)	ILDC for CJPE: Indian Legal Documents Corpus for Court Judgment Prediction and Explanation	Vijit Malik, Rishabh Sanjay, Shubham Kumar Nigam, Kripa Ghosh, Shouvik Guha, Arnab Bhattacharya, and Ashutosh Modi	2021		4046-4062	Online
87.	9th International Conference on Affective Computing and Intelligent Interaction (ACII), IEEE, 2021	Fine-Grained Emotion Prediction by Modeling Emotion Definitions	Gargi Singh, Dhanajit Brahma, Piyush Rai, Ashutosh Modi	2021			Online
88.	Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA)	An End-to-End Network for Emotion-Cause Pair Extraction	Aaditya Singh, Shreeshail Hingane, Saim Wani, Ashutosh Modi	2021		84–91	Online
89.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	Counts@IITK at SemEval-2021 Task 8: SciBERT Based Entity And Semantic Relation	Akash Gangwar, Sabhay Jain, Shubham Sourav, Ashutosh Modi	2021		1232–1238	Online

		Extraction For Scientific Data					
90.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	IITK@LCP at SemEval-2021 Task 1: Classification for Lexical Complexity Regression Task	Neil Shirude, Sagnik Mukherjee, Tushar Shandhilya, Ananta Mukherjee, Ashutosh Modi	2021		541–547	Online
91.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	MCL@IITK at SemEval-2021 Task 2: Multilingual and Cross-lingual Word-in-Context Disambiguation using Augmented Data, Signals, and Transformers	Rohan Gupta, Jay Mundra, Deepak Mahajan, Ashutosh Modi	2021		511–520	Online
92.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	KnowGraph@IITK at SemEval-2021 Task 11: Building Knowledge Graph for NLP Research	Shashank Shailabh, Sajal Chaurasia, Ashutosh Modi	2021		467–477	Online
93.	Proceedings of the 15th International Workshop on Semantic Evaluation	IITK at SemEval-2021 Task 10: Source-Free Unsupervised	Harshit Kumar, Jinang Shah, Nidhi Hegde, Priyanshu Gupta, Vaibhav	2021		438–444	Online

	(SemEval-2021)	Domain Adaptation using Class Prototypes	Jindal, Ashutosh Modi				
94.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	BreakingBERT @IITK at SemEval-2021 Task 9: Statement Verification and Evidence Finding with Tables	Aditya Jindal, Ankur Gupta, Jaya Srivastava, Preeti Menghwani, Vijit Malik, Vishesh Kaushik, Ashutosh Modi	2021		327–337	Online
95.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	Humor@IITK at SemEval-2021 Task 7: Large Language Models for Quantifying Humor and Offensiveness	Aishwarya Gupta, Avik Pal, Bholeswar Khurana, Lakshay Tyagi, Ashutosh Modi	2021		290–296	Online
96.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	IITK@Detox at SemEval-2021 Task 5: Semi- Supervised Learning and Dice Loss for Toxic Spans Detection	Archit Bansal, Abhay Kaushik, Ashutosh Modi	2021		211–219	Online
97.	Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021)	ReCAM@IITK at SemEval- 2021 Task 4: BERT and ALBERT based Ensemble for	Abhishek Mittal, Ashutosh Modi	2021		175–182	Online

		Abstract Word Prediction					
98.	IEEE International Conference on Blockchain and Cryptocurrency (ICBC)	SkillCheck: An Incentive-based Certification System using Blockchains	Jay Gupta, Swaprava Nath	2020		1-3	
99.	International Conference on Automated Planning and Scheduling (ICAPS)	OMCoRP: An Online Mechanism for Competitive Robot Prioritization	Sankar Das, Swaprava Nath, Indranil Saha	2021		112-121	
100.	ICPP Workshops '20: 49th International Conference on Parallel Processing	Network and Load-Aware Resource Manager for MPI Programs	A. Kumar, N. Jain, P. Malakar	2020	2020-Aug	1-10	Online
101.	ICPP Workshops '20: 49th International Conference on Parallel Processing	Communication-aware Job Scheduling using SLURM	P. Mishra, T. Agrawal, P. Malakar	2020	2020-Aug	1-10	Online
Earth Sciences							
102.	European Geoscience Union (EGU) General Assembly, 2021 (iPoster).	Evaluation of coupled THM reservoir processes on a laboratory scale.	Nanda, K., Das, A. and MISRA, S	2021		-	
103.	European Geoscience Union (EGU) General Assembly, 2021 (iPoster).	High-speed tensile fractures in granite and gneiss: an experimental study.	Jacob, B.J., MISRA, S., V. Parameshwaran and Mandal, N.	2021			

104.	European Geoscience Union (EGU) General Assembly, 2021(iPoster).	Compressive strength and permeability of thermally-cracked coals: implications for gas storage and transport in subsurface coal seams	Mukherjee, M., Sikdar, S. and MISRA, S.	2021			
105.	European Geoscience Union (EGU) General Assembly, 2021(iTalk)	Investigation of The Observed Time-lag Between the Simulated Peak Pore Pressures and Slope Failures in Rainfall Induced Landslides: A Numerical Approach.	Paul, K., Bhattacharya, P and MISRA, S.	2021			
106.	European Geoscience Union (EGU) General Assembly, 2021(iTalk)	Understanding deformation behavior of lower crustal rocks from experimentally deformed metapelitic aggregate: an EBSD-based approach.	Dutta, D., MISRA, S. and Mainprice, D.	2021			
107.	European Geoscience Union (EGU) General Assembly, 2021	Depth and composition dependent nanopore	Bal, A. and MISRA, S.	2021			

	(iPoster).	structures of Indian shale gas reservoirs: An implication on storage potential.					
108.	European Geoscience Union (EGU) General Assembly, 2021 (iPoster).	INTERaction between life, Rifting And Caldera Tectonics In OkataiNa.	Massiot, C., C. Miller, M. Stott, P. Villamor, H. Asanuma, E. Boyd, M. Lelli, D.D. McNamara, MISRA, S., T. Onstott, D. Schmitt, G. Ventura, P. Wang, L. Adam, E. Bertrand, F. Caratori Tontini, G. Kilgour, S.D. Milicich, A. Nichols, F. Parisio.	2021			
109.	AGU Fall Meeting, 2020. (iPoster).	Analyzing slippage coefficients and intrinsic permeabilities of dissimilar Indian coals considering their pore-size distributions: implications to CO ₂ storage in coal seams.	Mukherjee, M. and MISRA, S.	2020			

110.	<i>AGU Fall Meeting, 2020 (iPoster).</i>	Petrofabric and Seismic properties of exhumed subducted oceanic crust from Naga Hills Ophiolite, North-East India.	Abdullah, S.*, MISRA, S. R. Sarvesha and Ghosh, B	2020			
111.	<i>EAGE extended abstract</i>	Comparative study of stochastic Nature Inspired Optimization Algorithms to estimate Shear wave velocity using Ground rolls	Kumar P. and Ghosal D.	2021		-	
112.	<i>SEG extended abstract</i>	High-resolution velocity structure across HFT, Kumaon Himalaya using controlled source seismic datasets	Verma S. and Ghosal D.	2021			
113.	<i>EGU General Assembly 2021</i>	Delineation of S-wave velocity profiles across the Himalayan Frontal Thrust (HFT)	Kumar P and Ghosal D.	2021			

		using metaheuristic approaches					
114.	<i>EGU General Assembly 2021</i>	Crustal structure across Himalayan Frontal Thrust (HFT) using high-resolution seismic datasets	Verma S., Ghosal D., Vikas, Pandey S., Anand P., Srivastava H.	2021			
115.	<i>EGU General Assembly 2021</i>	Crustal architecture of Amsterdam-St. Paul Island from an integrated geophysical	Kumar P., Anand P., Ghosal D., Singha P.	2021			
116.	<i>AGU Fall Meeting</i>	Seismic structure and gas hydrate study on the southern Cascadia margin using multichannel seismic data	Yelisetti S., Ghosal D., Sanchez V.	2020			
117.	82 nd EAGE Conference & Exhibition 2020	Detection of gas leakage from the deep-seated reservoir using multi-attribute analysis in	Dixit A. and Mandal A.	2020	2020	1-5	Online

		Poseidon, NW shelf, Australia					
118.	33rd Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP2021)	Electrical imaging and geochemical studies to understand the migration of pollutant originating from chromite ore processing residue (COPR) site in Kanpur, India	Mishra#, U., C. Athul, A. Mandal	2021		106-106	Online
119.	Goldschmidt conference abstract	Chromite chemistry as a petrogenetic indicator: The good and bad	Vishal A.V.S., Handique T., Ishwar-Kumar C.	2020			
120.	Goldschmidt conference abstract	Zircon as a recorder of chemical change during metamorphism of Neoarchean lower crust, Shevaroy Block, Eastern Dharwar Craton, southern India	Harlov D.E., Dunkley D., Hansen, E., Ishwar-Kumar, C., Samuel V., Hokada T.	2021			
121.	AGU Fall Meeting	Negative Ce Anomaly in the Banded Iron Formation and Associated Clastic Rocks of	Pallabi Basu, Ishwar Kumar C., Sajeev K., Chakrabarti R.	2021			

		the Sirsi Shelf Region, Southern India: Inferences on the Fluid-Rock Alteration Event during the Pan-African Orogeny					
Economic Sciences							
122.	EBM 2020	Contemporary Issues in Economics, Business, and Management	Mathur, S. K.	2020			Kragujevac, Republic of Serbia.
Electrical Engineering							
123.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	Compact Modeling of Negative Capacitance Nanosheet FET including Quasi-Ballistic Transport	Gaidhane A.D., Pahwa G., Dasgupta A., Verma A., Chauhan Y.S.	2020			
124.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	BSIM-IMG: Advanced Model for FDSOI Transistors with Back Channel Inversion	Agarwal H., Kushwaha P., Dasgupta A., Y-Kao M., Morshed T., Workman G., Shanbhag K., Li X., Vinothkumar V., Chauhan	2020			

			Y.S., Salahuddin S., Hu C.				
125.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	Investigation of Standard and Enclosed Gate n-MOSFET Degradation due to Total Ionizing Dose Using BSIM-BULK	Verma J.H.K., Chauhan Y.S.	2020			
126.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	Compact Modeling of Surface Potential and Drain Current in Multi-layered MoS2FETs	Nandan K., Yadav C., Rastogi P., Torral-Lopez A., Marin-Sanchez A., Marin E.G., Ruiz F.G., Bhowmick S., Chauhan Y.S.	2020			
127.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	Analysis and Compact Modeling of Thermal Noise in Halo Implanted MOSFETs	Goel R., Gupta C., Chauhan Y.S.	2020			
128.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	Proposed Process Flow for Potential Well Based FDSOI MOSFET at 20 nm Gate Length	Jaiswal C.K., Nishant, Mehrotra S., Qureshi S.	2020			
129.	Proceedings - 2020	Effect of nearest	Dhuli S., Singh	2020			

	IEEE 9th International Conference on Communication Systems and Network Technologies, CSNT 2020	neighbors on convergence rate of periodic gossip algorithms in WSNs	Y.N., Ranjan P.				
130.	4th Electron Devices Technology and Manufacturing Conference, EDTM 2020 - Proceedings	Impact of Interface Traps Induced Degradation on Negative Capacitance FinFET	Prakash O., Gupta A., Pahwa G., Henkel J., Chauhan Y.S., Amrouch H.	2020			
131.	IEEE International Reliability Physics Symposium Proceedings	Impact of Radiation on Negative Capacitance FinFET	Bajpai G., Gupta A., Prakash O., Pahwa G., Henkel J., Chauhan Y.S., Amrouch H.	2020	2020-April		
132.	2020 IEEE Wireless Communications and Networking Conference Workshops, WCNCW 2020 - Proceedings	Open5G: A Software-Defined Networking Protocol for 5G Multi-RAT Wireless Networks	Kiri Taksande P., Jha P., Karandikar A., Chaporkar P.	2020			
133.	Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-	Generation of Annular Beam using Photonic Crystal Cavity	Sharma N., Kumar G., Vijaya R., Gupta S.	2020	2020-May		

	LEOS						
134.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	Ensemble network for ranking images based on visual appeal	Singh S., Sanchez V., Guha T.	2020	2020- May		
135.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	Q-GADMM: Quantized group ADMM for communication efficient decentralized machine learning	Elgabli A., Park J., Bedi A.S., Bennis M., Aggarwal V.	2020	2020- May		
136.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	Formulating Divergence Framework for Multiclass Motor Imagery EEG Brain Computer Interface	Kumar S., Reddy T.K., Arora V., Behera L.	2020	2020- May		
137.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings	Projection Free Dynamic Online Learning	Kalhan D.S., Bedi A.S., Koppel A., Rajawat K., Gupta A., Banerjee A.	2020	2020- May		
138.	IEEE Vehicular Technology Conference	Expectation Maximization (EM)-based Joint Channel	Majumder M., Mishra A., Jagannatham A.K.	2020	2020- May		

		Estimation and Symbol Detection in Doubly Selective Block Transmission Systems					
139.	2020 IEEE Transportation Electrification Conference and Expo, ITEC 2020	Fixed-Frequency Zero Voltage Switching CurrentFed (L) (LC) Resonant DC-DC Converter	Vakacharla V.R., Rathore A.K., Singh R.K., Mishra S.K.	2020			
140.	2020 IEEE International Conference on Communications Workshops, ICC Workshops 2020 - Proceedings	Spatially-correlated hardware-impaired massive MIMO FD Relaying with MIMO users	Amudala D.N., Sharma E., Budhiraja R.	2020			
141.	2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, IEEECONF 2020 - Proceedings	Throughput Enhancement of 2×2 MIMO system Using a Novel Wideband Neutralization Line	Mondal P., Dhara D., Harish A.R.	2020			
142.	Proceedings of the International Joint	Discrete-Time Lyapunov based	Kamboj A., Prakash R.,	2020			

	Conference on Neural Networks	Kinematic Control of Robot Manipulator using Actor-Critic Framework	Mohanta J.K., Behera L.				
143.	Proceedings of the International Joint Conference on Neural Networks	Real-time Trajectory Tracking of a Quadrotor using Adaptive Backstepping Controller and RNN based Uncertainty Observer	Yogi S.C., Tripathi V.K., Kamath A.K., Behera L.	2020			
144.	Proceedings of CONECCT 2020 - 6th IEEE International Conference on Electronics, Computing and Communication Technologies	Effect of Temperature on the Electrical Characteristics of All Silicon p-n-i-n TFET Device	Dinda S.G., Sundar Kumar Iyer S.	2020			
145.	Proceedings of CONECCT 2020 - 6th IEEE International Conference on Electronics, Computing and Communication Technologies	Study of Ambipolar Current of a Steep Slope Tunneling FET with Drain Underlap	Dinda S.G., Sundar Kumar Iyer S.	2020			

146.	SPCOM 2020 - International Conference on Signal Processing and Communications	Laser and Nonlinear Phase Noise Tracking and Estimation in Long Haul 400 Gbps Single Carrier PDM- 16-QAM Systems using Multi-step Kalman Filter	Sharma S., Krishnamurthy P.K.	2020			
147.	SPCOM 2020 - International Conference on Signal Processing and Communications	Dynamic Subarray Beamforming for Angular Superresolution of Coherent Targets	Sivasankar M., Hegde R.M.	2020			
148.	SPCOM 2020 - International Conference on Signal Processing and Communications	Adaptive Front- end for MIMO Radar with Dynamic Matrix Completion	Vardhan H., Tripathi R., Rajawat K.	2020			
149.	SPCOM 2020 - International Conference on Signal Processing and Communications	Sparse Framework for Personal Sound Reproduction with Differential Phase Constraint	Dagar A., Hegde R.M.	2020			
150.	SPCOM 2020 - International Conference on Signal Processing and	Sparse Kalman Filtering (SKF) Aided Doubly- Selective Channel	Srivastava S., Kumar M.S., Mishra A., Jagannatham A.K.	2020			

	Communications	Estimation in STTC MIMO-OFDM Systems					
151.	SPCOM 2020 - International Conference on Signal Processing and Communications	Impact of User and Relay Hardware Impairments on Spectral Efficiency of HD Massive MIMO Relay	Dey S., Sharma E., Budhiraja R.	2020			
152.	SPCOM 2020 - International Conference on Signal Processing and Communications	SBL-Based Hybrid Precoder/Combiner Design for Power and Spectrally Efficient Millimeter Wave MIMO Systems	Srivastava S., Mishra A., Jagannatham A.K., Ascheid G.	2020			
153.	SPCOM 2020 - International Conference on Signal Processing and Communications	Spatial HRTF Interpolation using Spectral Phase Constraints	Srivastava A., Routray G., Hegde R.M.	2020			
154.	SPCOM 2020 - International Conference on Signal Processing and Communications	NOMA-based Joint One-Way and Two-Way Relaying Aided Finite Blocklength Communication	Agarwal A., Jagannatham A.K.	2020			
155.	SPCOM 2020 -	SINR and Rate	Sahu R.,	2020			

	International Conference on Signal Processing and Communications	Coverage of Broadcast Networks using Stochastic Geometry	Chaurasia K.K., Gupta A.K.				
156.	SPCOM 2020 - International Conference on Signal Processing and Communications	Sparse Plane-wave Decomposition for Upscaling Ambisonic Signals	Routray G., Hegde R.M.	2020			
157.	SPCOM 2020 - International Conference on Signal Processing and Communications	Distributed Detection in Millimeter Wave Massive MIMO Wireless Sensor Networks	Chawla A., Singh R.K., Patel A., Jagannatham A.K.	2020			
158.	2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies, ICEFEET 2020	Impact of back-gate voltage on sensing metric of dielectric modulated Tunnel FET biosensor	Dwivedi P., Kumar A., Sengar B.S., Garg V., Singh R.	2020			
159.	2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies, ICEFEET 2020	Effect of applied bias on Schottky interface to affect resistive switching in a memristive device	Kumar A., Dwivedi P., Sengar B.S., Garg V., Singh R.	2020			
160.	IEEE International Conference on Fuzzy Systems	Fuzzy divergence based analysis	Reddy T.K., Arora V., Behera L.,	2020	2020-July		

		for eeg drowsiness detection brain computer interfaces	Wang Y.-K., Lin C.-T.				
161.	SPCOM 2020 - International Conference on Signal Processing and Communications	Analysis of Diffusion Based Molecular Communication System with Multiple Transmitters	Sabu N.V., Gupta A.K.	2020			
162.	Proceedings of the American Control Conference	Trading Dynamic Regret for Model Complexity in Nonstationary Nonparametric Optimization	Bedi A.S., Koppel A., Rajawat K., Sadler B.M.	2020	2020- July		
163.	IEEE Power and Energy Society General Meeting	Event detection and localization in active distribution networks using μ PMUs	Dutta R., Som S., Chakrabarti S., Sharma A., Srivastava A.K.	2020	2020- August		
164.	IEEE Power and Energy Society General Meeting	An iterated augmented covariance matrix based dynamic state estimation	Mitra A., Dutta R., Mohapatra A., Chakrabarti S.	2020	2020- August		
165.	IEEE Power and Energy Society General Meeting	Lissajous parameters based islanding detection of	Kumar A., Panda R.K., Mohapatra A., Singh S.N.	2020	2020- August		

		multiple DGs in microgrid					
166.	IEEE Power and Energy Society General Meeting	Secondary control method for standalone DC microgrid with improved voltage regulation, load sharing, and line loss	Yadav R.K., De S., Sahoo S.R., Chakrabarti S.	2020	2020-August		
167.	IEEE Power and Energy Society General Meeting	Optimal transmission switching with injection uncertainties	Chandra S., Yasasvi P.N., Mohapatra A., Srivastava S.C.	2020	2020-August		
168.	IEEE Power and Energy Society General Meeting	Optimal day-ahead load scheduling for voltage and frequency regulation in an islanded microgrid	Garg G., Mohapatra A., Chakrabarti S., Kumar A., Panda R.K.	2020	2020-August		
169.	2020 IEEE 11th International Symposium on Power Electronics for Distributed Generation Systems, PEDG 2020	Determination of Fault Clearing Time based on Thermal Limits of Power Semiconductor Devices in DC Microgrids	Islam S., Meghwani A., Anand S., Sahoo S.R.	2020			
170.	6th IEEE International	Protection coordination	Alam M.N., Sallem A.,	2020			

	Energy Conference, ENERGYCon 2020	using mixed characteristics of directional overcurrent relays in interconnected power distribution networks	Masmoudi N.				
171.	2020 2nd International Conference on Smart Power and Internet Energy Systems, SPIES 2020	Protection coordination with high penetration of solar power to distribution networks	Alam M.N., Chakrabarti S., Tiwari V.K.	2020			
172.	Optics InfoBase Conference Papers	Spectral characterization of light source using photonic crystal cavity	Sharma N., Kumar G., Vijaya R., Gupta S.	2020			
173.	2020 IEEE 3rd 5G World Forum, 5GWF 2020 - Conference Proceedings	Latency Analysis for IMT-2020 Radio Interface Technology Evaluation	Phani Kumar Reddy A., Kumar N., Tirumalasetty S.S.A., Srinivasan S., Vinosh Babu James J.	2020			
174.	IOP Conference Series: Materials Science and Engineering	A novel approach for coverings transformation to define a robot workspace	Rybak L.A., Behera L., Averbukh M.A., Sapryka A.V.	2020	945		

175.	IOP Conference Series: Materials Science and Engineering	Development of an algorithm for managing a multi-robot system for cargo transportation based on reinforcement learning in a virtual environment	Rybak L.A., Behera L., Averbukh M.A., Sapryka A.V.	2020	945		
176.	Proceedings of IEEE Sensors	High Tc Superconducting Tunnel Junctions for Cryogenic Temperature Measurement	Balasubramanian K.	2020	2020-October		
177.	IEEE International Conference on Intelligent Robots and Systems	Learning to Switch CNNs with Model Agnostic Meta Learning for Fine Precision Visual Servoing	Raj R., Namboodiri V.P., Behera L.	2020			
178.	IEEE International Conference on Intelligent Robots and Systems	Towards Deep Learning Assisted Autonomous UAVs for Manipulation Tasks in GPS-Denied Environments	Kumar A., Vohra M., Prakash R., Behera L.	2020			
179.	IECON	Disturbance	Korukonda	2020	2020-		

	Proceedings (Industrial Electronics Conference)	Observer based Controller Design to Reduce Sensor Count in Standalone PVDG Systems	M.P., Mohan Garg M., Hussain A., Behera L.		October		
180.	IECON Proceedings (Industrial Electronics Conference)	Analysis and Dual-loop PI Control of Bidirectional Quasi Z-Source DC-DC Converter	Battula S., Mohan Garg M., Kumar Panda A., Preetam Korukonda M., Behera L.	2020	2020- October		
181.	ECCE 2020 - IEEE Energy Conversion Congress and Exposition	Low Side Switch Based Regenerative Snubber Circuit for Flyback Converter	Bohra S., Sarkar A., Anand S.	2020			
182.	ECCE 2020 - IEEE Energy Conversion Congress and Exposition	Design and Performance Evaluation of an Air-Core Inductor for Point-of-Load (POL) Converter	Jha S., Acharya S., Mishra S.	2020			
183.	ECCE 2020 - IEEE Energy Conversion Congress and Exposition	Accelerated Aging Method and Lifetime Evaluation of Aluminum Electrolytic Capacitors for	Narale S.B., Verma A., Anand S.	2020			

		Power Electronic Application					
184.	ECCE 2020 - IEEE Energy Conversion Congress and Exposition	Elimination of 2f Ripple in a Current Shared Interleaved Current Fed Switched Inverter	Acharya S., Gambhir A., Mishra S.	2020			
185.	ECCE 2020 - IEEE Energy Conversion Congress and Exposition	An n-Phase Interleaved Current Fed Switched Inverter	Acharya S., Mishra S., Tiwari A.	2020			
186.	ECCE 2020 - IEEE Energy Conversion Congress and Exposition	Synthesizing a Comprehensive Set of Converter Topologies for a Specified Voltage Gain	Panigrahi R., Mishra S.K., Joshi A.	2020			
187.	2020 IEEE Industry Applications Society Annual Meeting, IAS 2020	Two-Stage On-Board Charger Using Bridgeless PFC and Half-Bridge LLC Resonant Converter with Synchronous Rectification for 48V e-Mobility	Pande K., Dixit A., Gangavarapu S., Rathore A.K., Singh R.K., Mishra S.K.	2020			
188.	2020 IEEE Industry Applications Society Annual Meeting, IAS 2020	High-Efficient G2V Battery Charger for 48V Local e-	Dixit A., Pande K., Rathore A.K., Singh R.K., Mishra	2020			

		Transportation	S.K.				
189.	2020 IEEE Industry Applications Society Annual Meeting, IAS 2020	Analysis and Design of Current-fed LCL Series Resonant Converter with Capacitive Doubler	Vakacharla V.R., Rathore A.K., Singh R.K., Mishra S.K.	2020			
190.	Proceedings - Applied Imagery Pattern Recognition Workshop	A review on image dehazing algorithms for vision based applications in outdoor environment	Sharma T., Shah T., Verma N.K., Vasikarla S.	2020	2020-October		
191.	Proceedings International Radar Symposium	Subarray design for multibeam radars with clustering methods	Sivasankar M., Hegde R.M.	2020	2020-October		
192.	Molecular Pharmaceutics	Gene Therapy: Contest between Adeno-Associated Virus and Host Cells and the Impact of UFMylation	Maurya S., Jayandharan G.R.	2020	17		
193.	2020 IEEE International Conference on Computing, Power and Communication	Leakage current analysis on outdoor composite insulators	Kumar A., Verma A.R., Subba Reddy B.	2020			

	Technologies, GUCON 2020						
194.	2020 IEEE 21st Workshop on Control and Modeling for Power Electronics, COMPEL 2020	A Cascaded Interleaved Bootstrapped Gate Driver Power Supply for Multilevel Photovoltaic Inverters	Deshmukh N., Anand S.	2020			
195.	7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2020	Characteristics Mode Analysis of H-Shaped Patch Antenna	Shukla S., Saraswat K., Harish A.	2020			
196.	7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2020	Harmonic Frequency Estimation with MEMO- ESPRIT Technique using MATLAB and Python	Srivastava A.K., Tiwari A.N., Singh S.N., Pampana V., Duchon M.	2020			
197.	Conference Record - Asilomar Conference on Signals, Systems and Computers	Generating Personal Sound Zones using Directional Loudspeakers	Dagar A., Hegde R.	2020	2020- Novemb er		
198.	Conference Record - Asilomar	Stochastic Geometry for	Gupta A.K., Pandey K.,	2020	2020- Novemb		

	Conference on Signals, Systems and Computers	Sensing Environmental Processes with a known Spatio-Temporal Profile	Dhillon H.S.		er		
199.	Conference Record - Asilomar Conference on Signals, Systems and Computers	Conservative Multi-agent Online Kernel Learning in Heterogeneous Networks	Pradhan H., Bedi A.S., Koppel A., Rajawat K.	2020	2020-November		
200.	Conference Record - Asilomar Conference on Signals, Systems and Computers	Sparse Framework for Reproduction of NFC-HOA	Routray G., Hegde R.M.	2020	2020-November		
201.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	On Energy Harvesting in Hybrid Massive MIMO Cooperative NOMA in a Multiuser Cell	Dhar S., Banerjee A., Sircar P.	2020	2020-December		
202.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	Spectral Efficiency in Poisson Cluster Based HetNets with Users-Basestations Correlation	Deshpande N.V., Routray S.K., Gupta A.K.	2020	2020-December		
203.	Asia-Pacific Microwave Conference Proceedings,	A HIS Backed Band-Reconfigurable Antenna	Saraswat K., Harish A.R.	2020	2020-December		

	APMC						
204.	Asia-Pacific Microwave Conference Proceedings, APMC	Eccentric Split Ring Resonator (ESRR) - An Approach towards Realizing Dynamic Range Rotational Structures	Bhope V., Harish A.R.	2020	2020-December		
205.	Asia-Pacific Microwave Conference Proceedings, APMC	Independent control over center frequency and bandwidth of bandpass filter based on SIW loaded with rectangular mushroom resonators	Chaudhury S.S., Awasthi S., Singh R.K.	2020	2020-December		
206.	2020 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA ASC 2020 - Proceedings	Learning Based DOA Estimation in Adverse Acoustic Environment using Co-prime Circular Microphone Array	Gohil R., Raikar A., Routray G., Hegde R.M.	2020			
207.	PECon 2020 - 2020 IEEE International Conference on Power and Energy	Electromagnetic analysis of underground cables for upcoming smart city: Case study	Balaji S., Devendran V.S., Chenniappan S.	2020			

208.	4th IEEE Conference on Information and Communication Technology, CICT 2020	A bioinformatic method of semi-global alignment for query-by-humming	Ranjan S., Arora V.	2020			
209.	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	MSBL-based Simultaneous Sparse Channel Estimation in SC Wideband mmWave Hybrid MIMO Systems	Srivastava S., Jagannatham A.K.	2020	2020-January		
210.	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	Linear MMSE Precoder Combiner Designs for Decentralized Estimation in Wireless Sensor Networks	Rajput K.P., Verma Y., Venkategowda N.K.D., Jagannatham A.K., Varshney P.K.	2020			
211.	2020 IEEE Symposium Series on Computational Intelligence, SSCI 2020	Adaptive Backstepping Neural Tracking Control of an Uncertain Robot Manipulator with Dynamic Disturbances	Prakash R., Gupta K.V., Behera L.	2020			
212.	IEEE Transactions on Communications	Energy-Efficient Massive MIMO Multi-Relay NOMA Systems with CSI Errors	Mandawaria V., Sharma E., Budhiraja R.	2020	68		

213.	2020 International Symposium on Antennas and Propagation, ISAP 2020	A miniaturized band-notched absorber for wideband RCS reduction	Sharma A., Malik S., Ghosh S., Srivastava K.V.	2021			
214.	European Signal Processing Conference	Spectral efficiency for massive MIMO multi-relay NOMA systems with CSI errors	Mandawaria V., Sharma E., Budhiraja R.	2021	2021-January		
215.	European Signal Processing Conference	User activity and data detection for MIMO uplink C-RAN using Bayesian learning	Rajoriya A., Katiyar V., Budhiraja R.	2021	2021-January		
216.	European Signal Processing Conference	Dynamic resolution ADC/DAC massive MIMO FD relaying system over correlated rician channel	Dey S., Sharma E., Budhiraja R.	2021	2021-January		
217.	2021 IEEE 18th Annual Consumer Communications and Networking Conference, CCNC 2021	A cluster based sensor-selection scheme for energy-efficient agriculture sensor networks	Redhu S., Singh A.P., Hegde R.M., Beferull-Lozano B.	2021			
218.	2021 International Conference on Wireless	AFM Signal Model for Digit Recognition	Bansal M., Sircar P.	2021			

	Communications, Signal Processing and Networking, WiSPNET 2021						
219.	15th European Conference on Antennas and Propagation, EuCAP 2021	Multi-Layer Multi-Dielectric Lens Loaded SIW Horn Antenna for Ku- Band Applications	Sahoo S.K., Adhikary M., Biswas A., Akhtar M.J.	2021			
220.	15th European Conference on Antennas and Propagation, EuCAP 2021	A Single- Aperture 0°- 120°-240° Triple-Polarized Planar Compact Circular Monopole Array with a Single- Stage Decoupling and Matching Network	Dhara D., Mondal P., Harish A.R., Kuan Y.-C.	2021			
221.	2021 24th Conference on Innovation in Clouds, Internet and Networks and Workshops, ICIN 2021	5G-Serv: Decoupling User Control and Network Control in the 3GPP 5G Network	Khaturia M., Manjeshwar A.N., Jha P., Karandikar A.	2021			
222.	2021 IEEE International Symposium on Circuits and Systems (ISCAS)	Breaking the Trade-Off between Bandwidth and Close-in Blocker	H. Rathore, I. Mondal	2021			Daegu, Korea

		Attenuation in an N-Path Filter					
223.	21st National Power Systems Conference (NPSC 2020)	A New Short-Circuit Protection Scheme for Boost Converter	Siddhant Kumar, Bharat Singh Rajpurohit, SN Singh, Iliana Marinova and Valentin Mateev	2020			IIT Gandhinagar, Gujarat
224.	21st National Power Systems Conference (NPSC 2020)	A Metaheuristic approach for Conservation Voltage Reduction in Unbalanced Active Distribution Networks	V Vineet, A Mohapatra and SN Singh	2020			IIT Gandhinagar, Gujarat
225.	21st National Power Systems Conference (NPSC 2020)	Improved Detection Time and Performance of Frequency Relay for Islanding Detection of DG	Avinash Kumar, Abheejeet Mohapatra and SN Singh	2020			IIT Gandhinagar, Gujarat
226.	IEEE Devices Technology and Manufacturing Conference (EDTM)	Impact of Non-Idealities in RRAMs on Hardware Spiking Neural Networks	Tejas Ketkar and Shubham Sahay	2021			
227.	ACM/IEEE International	A Flash-Based Multi-Bit	Shubham Sahay, Arman Kazemi,	2021			

	Symposium on Low Power Electronics and Design (ISLPED)	Content-Addressable Memory with Euclidean Squared Distance	Ayush Saxena, Mohammad Mehdi Sharifi, Michael Niemier and X. Sharon Hu				
228.	2020 International Symposium on Antennas and Propagation (ISAP), Osaka, Japan, 2021	A Miniaturized Band-Notched Absorber for Wideband RCS Reduction	A. Sharma, S. Malik, S. Ghosh and K. V. Srivastava	2021			
229.	International Conference on Electronics, Computing and Communication Technologies (CONECCT), Bangalore, 2021	A Dual-Transmission Band Resorber with Miniaturized Unit Cell Geometry	A. Sharma, S. Malik, S. Ghosh, and K. V. Srivastava	2021			
230.	World Congress on Micro and Nano Manufacturing (WCMNM 2021), Mumbai, India, 2021	Design for easy surface machined and highly absorbing metamaterials for Infrared frequencies	Jyoti Yadav, J. Ramkumar and Kumar Vaibhav Srivastava	2021			
231.	IEEE International Conference on Emerging Electronics (ICEE)	Modeling of 0.18 μ m RF Bulk and SOI Planar MOSFETs using Industry Standard BSIM Models	Rathi A., Kumar M., Verma J. K., Jatana H. S., Chauhan Y. S., Dixit. A.	2020	2020-Nov.		

232.	IEEE International Conference on Emerging Electronics (ICEE)	Compact Model Parameter Extraction Using Modular Q Learning for Nano-Scale Transistors	Dutta A., Rajasekharan D., Chauhan Y. S.	2020	2020-Nov.		
233.	IEEE International Conference on Computer-Aided Design (ICCAD)	"Cell Library Characterization using Machine Learning for Design Technology Co-Optimization	Klemme F., Chauhan Y.S, Henkel J., Amrouch H.	2020	2021-Nov.		
234.	IEEE Electron Devices Technology and Manufacturing Conference (EDTM)	"Soft Errors in Negative Capacitance FDSOI SRAMs	Bajpai G., Gupta A., Prakash O., Chauhan Y. S., and Amrouch H.	2021	2021-March		
235.	IEEE Electron Devices Technology and Manufacturing Conference (EDTM)	On the Critical Role of Ferroelectric Thickness for Negative Capacitance Transistor Optimization	Prakash O., Gupta A., Pahwa G., Chauhan Y. S., Amrouch H.	2021	2021-March		
236.	21st National Power Systems Conference (NPSC)	Combined two-point and three-point interpolated DFT for frequency estimation	B. R. Kumar, Abheejeet Mohapatra and Saikat Chakrabarti	2020		1-6	Gandhinagar, India

237.	21st National Power Systems Conference (NPSC)	Improved detection time and performance of frequency relay for islanding detection of DG	Avinash Kumar, Abheejeet Mohapatra and S. N. Singh	2020		1-6	Gandhinagar, India
238.	21st National Power Systems Conference (NPSC)	A Metaheuristic approach for conversation voltage reduction in unbalanced active distribution networks	Vineeth Vijayan, Abheejeet Mohapatra and S. N. Singh	2020		1-6	Gandhinagar, India
239.	21st National Power Systems Conference (NPSC)	Multi-Objective Framework for Optimal Scheduling of Electric Vehicles	Aastha Kapoor, Priyanka Gangwar, Ankush Sharma and Abheejeet Mohapatra	2020		1-6	Gandhinagar, India
240.	IEEE International Joint Conference on Neural Networks (IJCNN 2020)	Combined Online and Offline Inverse Dynamics Learning for a Robot Manipulator	Panda A. K., Prakash R., Behera L., and Dutta A.	2020	July 19-24, 2020		
241.	SICE International Symposium on Control Systems (SICE 2021)	Path tracking of non-holonomic mobile robot using event-triggered control in presence of	Singh P., Yogi S. C., Behera L., and Verma N. K.	2021	March 2-4, 2021		

		time and state-dependent uncertainties					
242.	SPCOM 2020 - International Conference on Signal Processing and Communications	Coverage Improvement of Wireless Sensor Networks via Spatial Profile Information	Pandey K, Gupta A.K.	2020			
243.	2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings	'Does Blockage Correlation Matter in the Performance of mmWave Cellular Networks	Gupta S, Gupta A. K.	2020			
244.	WCNC 2020	On the Coverage Performance of Boolean-Poisson Cluster Models for Wireless Sensor Networks	Pandey K, Gupta A.K.	2020			

Humanities and Social Sciences

245.	Advancing a Design Approach to Enriching Public Mobility	The Challenges of Designing the Rail Network Map/Diagram as the Critical, Missing, Transit Infrastructure for Mumbai	Rane, M., Patel, J., Patil, K., Kulkarni, A., Bhushan, B., & Gami, H.	2021		161-189	India
246.	8th International Conference on	Understanding the dynamics of	Kumar, M., Roy, S.,	2021	Volume II	469-482 ISBN: 978-	India

	Research into Design (ICoRD 21)	emotions during the design process	Bhushan, B., Sameer, A., Mittal, S., & Sarkar, B.			981-16-0118-7	
247.	In Proceedings of the 16th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2021)	Exploring fractal dimension analysis as a technique to study the role of intensity of facial expression and viewing angle.	Bhushan, B. & Munshi, P.	2021	2: HUCAP P	103-110 ISBN: 978-989-758-488-6	
248.	Advances in Intelligent Systems and Computing (IntelliSys 2020)	A convolutional neural network approach for quantification of tremor severity in neurological movement disorders	Ranjan, R., Bhushan, B., Palaniswami, M., & Verma, A.	2020	Vol. 1252		
249.	24th International Conference Information Visualisation (IV)	Metaphors We See By	Swaroop Panda and Shatarupa Thakurta Roy	2020		704-707	
250.	In proceedings of Mensch und Computer 2020	Explaining Explainable AI	Swaroop Panda and Shatarupa Thakurta Roy	2020			
251.	In virtual proceedings (posters) of IEEE VIS 2020	Music Genre Bars	Swaroop Panda and Shatarupa Thakurta Roy	2020			
252.	In proceedings (posters) of PacificVIS 2021	A Preliminary Model for the Design of Music	Swaroop Panda, and Shatarupa Thakurta Roy	2021			

		Visualizations					
253.	ComIN 20: International Conference on Indian Comics	Graphic Culture of India: From the Perspective of its Form, Themes, and User base	Rohit Kumar and Shatarupa Thakurta Roy	2020		153-163	IIT Delhi
254.	ComIN 20: International Conference on Indian Comics	Graphic in Health Care: Understanding Graphic Narrative Approach to Represent and Communicate Health	Rohit Kumar and Shatarupa Thakurta Roy	2020		124-135	IIT Delhi
255.	International Conference on Research into Design. Smart Innovation, Systems and Technologies	Introducing Visual Literacy Activities for Primary School Children in India	Mittal, S., Roy, S., Kumar, M., & Sameer, A.	2021		745-760	Singapore
Industrial and Management Engineering							
256.	7th International Conference on Control, Decision and Information Technologies, CoDIT 2020	Real-time vision-based tracking of a moving terrain target from Light Weight Fixed Wing UAV using gimbal control	Kumar P., Sonkar S., Ghosh A.K., Philip D.	2020		154-159	
257.	7th International Conference on	Simulation and Analysis of	Sonkar S., Kumar P., Philip	2020		1018-1023	

	Control, Decision and Information Technologies, CoDIT 2020	Spring Based Transverse Axis Sensing MEMS Capacitive Accelerometer	D., Ghosh A.K.				
258.	Proceedings - 2020 IEEE International Conference on Engineering, Technology and Innovation, ICE/ITMC 2020	Assessment of Success Determinants for Implementing Digitalization in Indian Construction Industry	Bajpai A., Misra S.C.	2020		-	
259.	Proceedings - 2020 IEEE International Conference on Engineering, Technology and Innovation, ICE/ITMC 2020	Assessment of Success Factors for Cloud adoption in Semiconductor Industry using Hybrid DEMATEL-ANP	Pawar N., Misra S.C., Singh S.	2020		-	
260.	Proceedings - 2020 IEEE India Council International Subsections Conference, INDISCON 2020	Identifying Critical Risk Factors for Use of Digitalization in Construction Industry: A Case Study	Bajpai A., Misra S.C.	2020		124-128	
261.	IEEE International Conference on Industrial Engineering and Engineering	Relating environmental and structural uncertainty to management	Singh V., Sharma R.R.K., Lai K.K.	2020	2020-December	898-902	

	Management	decision making style and behavior during information system planning and implementation					
262.	ICMESS Conference	Designing Interventions for Attitude Change: Role of MBTI Personality Type	RRK Sharma	2020			Denver USA
263.	1st GEE conference	Challenges In Teaching Industrial Engineering Courses In Online Mode During Covid Times	RRK Sharma	2020			Atlanta USA

Mathematics and Statistics

264.	Proceedings of the International Joint Conference on Neural Networks	HLGSNet: Hierarchical and Lightweight Graph Siamese Network with Triplet Loss for fMRI-based Classification of ADHD	Jha R.R., Nigam A., Bhavsar A., Jaswal G., Pathak S.K., Kumar R.	2020			
265.	Indian Society Of Theoretical and Applied Mechanics	Global- cloud resolving simulations	Vinay Kumar, Shainath Kalamkar, B V	2020			Hyderabad

	2020, GITAM	using NICAM: A high- resolution NWP	Rathish Kumar, Masaki Satoh, Bipin Kumar				
266.	International Conference on Computational Sciences- Modelling, Computing and Soft Computing, September 10-12, 2020, Department of Mathematics, NIT Calicut	A look at the spatial resolution in NICAM: A strategic weather prediction modelling system	Vinay Kumar, Shainath Kalamkar, B V Rathish Kumar, Masaki Satoh, Bipin Kumar	2020			Kerala
267.	International Joint Conference on Rough Sets (IJCRS 2020).	Object oriented protoconcepts and logics for double and pure double Boolean algebras.	Prosenjit Howlader and Mohua Banerjee.	2020	Volume LNAI- 12179, Springer .	Pages 308–323	Havana, Cuba (Virtual)
268.	International Conference on Concept Lattices and Their Applications (CLA 2020).	Remarks on prime ideal and representation theorems for double Boolean algebras	Prosenjit Howlader and Mohua Banerjee.	2020		Pages 83–94	Tallinn University of Technology, Estonia (Virtual)
269.	Indian Conference on Logic and its Applications (ICLA 2021).	Double Boolean algebras with operators.	Prosenjit Howlader and Mohua Banerjee.	2020		Pages 60–66	Indian Statistical Institute, Chennai (Virtual)
270.	Mathematical Mod- elling, Optimization, Analytic and	Wavelet Galerkin Methods for Higher	B.V. Rathish Kumar, Gopal Priyadarshi	2020		Chapter 11 231-253	

	Numerical Solutions	Order Partial Di_ifferential Equations					
271.	Indian Conference on Logic and Applications ICLA 2021	Aggregating relational structures (Extended abstract)	H. Bisht, A. Kuber	2021			
272.	Proceedings of Group Algebras, Representations and Computation (ICTS, Oct. 2019).	Gelfand criterion and multiplicity one results for GL_n over Finite Chain Rings	Patel S. P., Singla P.	2020			

Mechanical Engineering

273.	IOP Conference Series: Earth and Environmental Science	Numerical simulation of three-dimensional microbial fuel cell	Kataky K.P., Dalal A., Biswas G., Wang C.-T.	2020	463	-	
274.	Journal of Physics: Conference Series	Excitation dependent emission of terbium aluminium garnet doped with gadolinium	Kaur J., Rani S., Lal B.	2020	1531	-	
275.	Proceedings of the International Joint Conference on Neural Networks	Combined Online and Offline Inverse Dynamics Learning for a Robot Manipulator	Panda A.S., Prakash R., Behera L., Dutta A.	2020		-	

276.	2020 IEEE Symposium Series on Computational Intelligence, SSCI 2020	Evaluating Nonlinear Decision Trees for Binary Classification Tasks with Other Existing Methods	Dhebar Y., Gupta S., Deb K.	2020		2813-2813	
277.	<u>Proceedings of the 7th International Conference on Advances in Energy Research</u>	Correlating Partial Shading and Operating Conditions to the Performance of PV Panels	S. Gairo la M. K. S harma J. Bhatt acharya	2020		707-716	
278.	International Conference on Advanced Light-weight Materials and Structures, ICALMS-2K20	Open source designing for additive manufacturing of metallic triply periodic minimal surfaces	Chavan H., Mishra A.K., Kumar A.	2020		635-643	CMR Technical Campus, Hyderabad, Telangana, India
279.	International Conference on Materials, Manufacturing and Modelling (ICMMM-2021)	Effect of material variation on the uniaxial compression behavior of FDM manufactured polymeric TPMS lattice materials	Mishra A.K., Chavan H., Kumar A.	2021			VIT Vellore, Tamil Nadu, India
280.	International Conference on	PIV study of directional	Kumar A., Kumar A.	2021			VIT Vellore, Tamil Nadu,

	Materials, Manufacturing and Modelling (ICMMM-2021)	solidification of a binary metal alloy analogue					India
281.	Bulletin of the American Physical Society	Effect of entanglements on the glass transition behavior of polymer chains in a melt	Manjesh K. Singh, Hsiao- Ping Hsu, Kurt Kremer	2021			Online
282.	Bulletin of the American Physical Society	On the solvation of elastin-like polypeptides in aqueous mixtures	Yani Zhao, Manjesh K. Singh, Kurt Kremer, Robinson Cortes Huerto, Debashish Mukherji	2020			Online
283.	International Topical Meeting on Advances in Thermal Hydraulics (ATH'20)	Design and Development of Thermal- Hydraulic Test Facility for Containment (THYCON)	Punetha M., Yadav M. K., Jain S., Khandekar S., and Sharma P. K	2020			Paris, France
284.	Physics	Spatial Temperature Distribution of an Open Square Capillary Tube Wall during Passage of a Taylor Liquid Plug	Gatapova E. Y, and Khandekar S	2020	012003	1369 (1)	
285.	ECS Meeting	Printing-Based	Sundriyal P.,	2020	MA202	1018	-

	abstracts, 2020 Meet 237th ECS Meeting with the 18th International Meeting on Chemical Sensors (IMCS 2020) May 10, 2020 - May 14, 2020 Montreal, Canada	Manufacturing of Flexible Ferroelectric Devices for Energy Harvesting Applications	Bhattacharya S.		0-01		
286.	ECS Meeting abstracts, 2020 Meet 237th ECS Meeting with the 18th International Meeting on Chemical Sensors (IMCS 2020) May 10, 2020 - May 14, 2020 Montreal, Canada	Laser-Based Micro- Manufacturing of Thin-Film and Miniaturized Supercapacitors	Sundriyal P., Bhattacharya S.	2020	MA202 0-01	-	-
287.	ECS Meeting abstracts, 2020 Meet 237th ECS Meeting with the 18th International Meeting on Chemical Sensors (IMCS 2020) May 10, 2020 - May 14, 2020 Montreal,	Novel Paper Based Hand- Fabricated Point of Care Prothrombin Time Sensing Platform Using Pencil and Correction Pen	Saha A., Bhattacharya S.	2020	MA202 0-01	-	-

	Canada						
288.	International Joint Conference on Industrial Engineering and Operations Management ((IJCIEOM 2020)	Comparative Study of Multi Neurons & Multi Layers Artificial Neural Network in Knowledge Management	Singh S., Bhattacharya S., Saddikuti V.	2020	-	1-8	-
Physics							
289.	Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS	Generation of Annular Beam using Photonic Crystal Cavity	Sharma N., Kumar G., Vijaya R., Gupta S.	2020	2020-May	-	
290.	Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS	Quantum Phase Synchronization and Blockade in Spin-1 System	Adhikary P., Laskar A.W., Mondal S., Katiyar P., Vinjanampathy S., Ghosh S.	2020	2020-May	-	
291.	Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS	Measurement of Two-Photon Position-Momentum EPR-Correlation by Detecting Single-Photon Correlation	Bhattacharjee A., Jha A.K.	2020	2020-May	-	
292.	Conference Proceedings - Lasers and Electro-Optics Society	Far-Field Optical Diffraction Imaging of	Kumar G., Halder A., Vijaya R.	2020	2020-May	-	

	Annual Meeting- LEOS	Opal-Based Photonic Crystal					
293.	Optics InfoBase Conference Papers	Measuring pure states in the orbital angular momentum basis using nine image acquisitions	Kulkarni G., Karan S., Jha A.K.	2020		-	
294.	Optics InfoBase Conference Papers	Realization of strong far-field two-photon correlation in a transverse degree of freedom	Bhattacharjee A., Joshi M.K., Leach J., Jha A.K.	2020		-	
295.	Optics InfoBase Conference Papers	Polarization- preserving high- reflector with wavelength- selective diffraction	George L., Kumar G., Haldar A., Vijaya R.	2020		-	
296.	Optics InfoBase Conference Papers	Photon statistics in parametric down- conversion process	Meher N., Jha A.K.	2020		-	
297.	Optics InfoBase Conference Papers	Spectral characterization of light source using photonic crystal cavity	Sharma N., Kumar G., Vijaya R., Gupta S.	2020		-	
298.	2020 IEEE Photonics Conference, IPC	Unidirectional Narrowband Perfect	Gupta N.K., Tiwari A.K., Wanare H.,	2020		-	

	2020 - Proceedings	Absorption in Quasi-random Structures- Interplay of Gap States and Tamm Plasmon Modes	Anantha Ramakrishna S.				
299.	CLEO: Science and Innovations, JW1A.	Reference Wavelength Free Refractometry in Fiber Optic Directional Couplers	G Bawa, SM Tripathi	2021	84		
300.	ICOL-2019: Proceedings of the International Conference on Optics and Electro	Gaussian-Like Mode-Field Generation in Microstructured Optical Fiber	DK Sharma, SM Tripathi	2021			
301.	ICOL-2019: Proceedings of the International Conference on Optics and Electro	TiO ₂ Based Micro-Ring Resonator as Near Infrared Laser Line Filter: Numerical Simulation	YK Verma, I Kumar, SM Tripathi	2021			
302.	ICOL-2019: Proceedings of the International Conference on Optics and Electro	Surface Plasmon Resonance Based Microstructured Optical Fiber Sensor in IR Regime Using ITO Layer	DK Sharma, SM Tripathi	2021			

303.	ICOL-2019: Proceedings of the International Conference on Optics and Electro	Mode-Field Expansion in Index-Guiding Microstructured Optical Fiber	H Singh, DK Sharma, SM Tripathi	2021			
304.	Theoretical and Numerical Tools for Nanophotonics TNTN	Implications on Mode-Field Expansion in Microstructured Optical Fiber	H Singh, DK Sharma, SM Tripathi	2021			
305.	Virtual International Conference on Physical Sciences (ICPS-2021, jointly organized by the Department of Physics, Department of Chemistry and Department of Applied Mathematics and Humanities, Sardar Vallabhbhai National Institute of Technology Surat	Intriguing physics of plasmas in a dipole magnetic field : from colossal magnetospheres to a table top device	Sudeep Bhattacharjee (Plenary lecture)	2021			
306.	International Conference on Plasma Science and Applications (ICPSA 2020) Virtual Conference organized by	Plasma sheath induced nonlinear optics in focused ion beams	Sudeep Bhattacharjee (Invited lecture)	2020			

	Ravenshaw University, Cuttack, India						
307.	47th IEEE International Conference on Plasma Sciences (ICOPS 2020), Singapore (organized as fully Virtual Conference online).	Focused ion beam optics driven by sheath nonlinearity and wave-plasma interaction in restricted geometry	Sudeep Bhattacharjee (Invited Lecture)	2020			
308.	4th Asia Pacific Conference on Plasma Physics, 26-31, October, 2020, Seoul, Korea, (organized as fully Virtual Conference online).	Intriguing physics of plasmas confined by a dipole magnet driven at steady state	Sudeep Bhattacharjee (Plenary lecture)	2020			
309.	8th PSSI-Plasma Scholars Colloquium, Online Conference organized by KIIT Bhubaneswar, India	Confinement, diffusion, and adiabaticity in a tabletop magnetic dipole plasma: unravelling surprises via experiments	Sudeep Bhattacharjee (Invited lecture)	2020			
310.	8 th Plasma Scholars Colloquium 2020, KIIT University, Odisha (e-conference)	Molecular dynamics simulation of collisional cooling of He and its binary	Swati Swagatika Mishra and Sudeep Bhattacharjee	2020			

		mixtures with Ne, Ar , Kr and Xe for creating strongly coupled cryoplasmas,					
311.	4 th Asia Pacific Conference on Plasma Physics (e-conference)	Molecular dynamics simulation of collisional cooling of He and its binary mixtures with Ne, Ar, Kr and Xe in Nose-Hoover thermostat for creating strongly coupled cryo-plasmas	Swati Swagatika Mishra and Sudeep Bhattacharjee	2020			
312.	4th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP 2020), (e-conference)	Characterization of fluctuations in atmospheric pressure micro-plasma jets	Deepika Behmani, Kalyani Barman and Sudeep Bhattacharjee	2020			
313.	8th PSSI-Plasma Scholars Colloquium (PSC 2020), (e-conference)	Floating potential fluctuations in atmospheric pressure micro-plasma jets	Deepika Behmani, Kalyani Barman and Sudeep Bhattacharjee	2020			
314.	4th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP), (e-	Observation of nonlinear demagnification in plasma-based	Sushanta Barman, Sanjeev Kumar Maurya, and	2020			

	conference)	ion beam optics	Sudeep Bhattacharjee				
315.	4th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP), (e- conference)	Low Energy Plasma based Ion Beams for Tuning Optical Properties of Metallic Thin Film Mirrors	Krishn Pal Singh and Sudeep Bhattacharjee	2020			
316.	13th International Conference on Plasma Science and Applications (ICPSA-2020), Ravenshaw University, Cuttack, Odisha (e- conference).	Tuning Optical Properties of Atomically Heterogeneous Systems Created by Plasma-ion Beams: Wavelength Dependence and Effective Medium Models	Krishn Pal Singh and Sudeep Bhattacharjee	2020			
317.	8th PSSI-Plasma Scholars Colloquium (PSC- 2020), KIIT, Bhubaneswar, Odisha, India. (e- conference)	Electrical conductivity of a plasma confined in a dipole magnetic field: systematic experiments and theory	Ayesha Nanda and Sudeep Bhattacharjee	2020			
318.	4th Asia Pacific Conference on Plasma Physics (AAPPS- DPP 2020), 26 - 31 October 2020 (e- conference)	Electrical conductivity in a compact dipole plasma device	Ayesha Nanda and Sudeep Bhattacharjee	2020			

319.	13th International Conference on Plasma Science and Applications (ICPSA 2020), Ravenshaw university, Cuttack, India (e-conference)	Plucked string harmonics in a bounded plasma confined in a dipole magnetic field	Sargam Hunjan and Sudeep Bhattacharjee	2020			
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