

# Details of Journal publications in 2020-2021

## Department of Applied Geology

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume , Page No.	Indexing (SCI/ Scopus/ Others)
1	Himanshu Govil, Gaurav Mishra, Neetu Gill, Ajay Taloor, P. Diwan	Mapping Hydrothermally Altered Minerals and Gossans using Hyperspectral data in Eastern Kumaon Himalaya, India	Applied Computing and Geosciences	Elsevier	2021	9, 1-7	Scopus
2	Subhanil Guha, Himanshu Govil, and Prabhat Diwan	Monitoring LST-NDVI Relationship Using Premonsoon Landsat Datasets	Advances in Meteorology	Hindawi	2020	2020, 1-15	SCI
3.	AD Asokan, R Elangovan, N Vishwakarma, KR Hari, M Ram Mohan	Petrogenesis of the Kanker Granites from the Bastar Craton: Implications for the crustal growth and evolution during the Archean-Proterozoic transition	Frontiers in Earth Science	-	2020	8, 212	SCI
4.	A Sahu, N Vishwakarma, Y Singh, CB Verma	Mineral chemistry of high-Al chromian spinel from ultramafic rocks of the Babina–Prithvipur transect, Bundelkhand Craton, central India: Implication for petrogenesis and tectonic setting	Journal of Earth System Science	Indian Academy of Science Springer	2020	129, 1-19	SCI
5.	P Ram, V Gupta, M Devi, N Vishwakarma	Landslide susceptibility mapping using bivariate statistical method for the hilly township of Mussoorie and its surrounding areas, Uttarakhand Himalaya	Journal of Earth System Science	Indian Academy of Science Springer	2020	129,, 1-18	SCI
6.	V Singh, R Khan, U Gupta, N Vishwakarma, DC Jhariya	Hydrogeochemical assessment of groundwater of Raipur city industrial area Chhattisgarh, India	Earth and Environmental Science	-	2020	597 (1)	Scopus
7.	K Munna, R Guhey, N Vishwakarma	Mechanism of fluoride enrichment in groundwater of hard-rock terrain in bhopalpatnam area, Bijapur-District, Chhattisgarh, India	Journal of Applied Geochemistry	Indian Society of Applied Geochemists	2020	22 (1), 72-85	Other
8.	Singh M, Tapadia, K, Jhariya, D, and Sahu	Evaluation of uranium containing ground water quality and non-carcinogenic risk assessment in inhabitant of Bijapur District	Journal of Radioanalytical and Nuclear	Springer	2021	1-9	SCI

	P.	of Chhattisgarh, Central India	Chemistry				
9.	Agnihotri D, Kumar T, and <i>Jhariya D</i>	Intelligent vulnerability prediction of soil erosion hazard in semi-arid and humid region.	Environment, Development and Sustainability	Springer	2020	1-28	SCI
10.	Jaiswal T. and <i>Jhariya D.C</i>	Impacts of Land Use Land Cover Change on Surface Temperature and Groundwater Fluctuation in Raipur District	Journal of the Geological Society of India	Springer	2020	95(4), 393-402.	SCI
11.	Kumar, T., <i>Jhariya, D. C.</i> , & Pandey, H. K.	Comparative study of different models for soil erosion and sediment yield in Pairi watershed, Chhattisgarh, India	Geocarto International	Taylor & Francis	2020	35(11), 1245-1266	SCI
12.	<i>Jhariya, D. C.</i> , Kumar, T., & Pandey, H. K.	Watershed prioritization based on soil and water hazard model using remote sensing, geographical information system and multi-criteria decision analysis approach	Geocarto International	Taylor & Francis	2020	35(2), 188-208	SCI
13.	Sankaran Rajendrana, Ponnumony Vethamony, Fadhil N. Sadooni, Hamad Al-Saad Al-4 Kuwari, Jassim A. Al-Khayat, Vashist O. Seegobin, Himanshu Govil, Sobhi Nasir	Detection of Wakashio oil spill off Mauritius using Sentinel-1 and 2 data: 1 capability of sensors, image transformation methods and mapping	Environmental Pollution	Elsevier	2021	274 (2021) 1-11	SCI
14.	Sankaran Rajendran, Fadhil N. Sadooni, Hamad Al-Saad Al-Kuwari, Anisimov Oleg, Himanshu Govil, Sobhi Nasir & Ponnumony Vethamony	Monitoring oil spill in Norilsk, Russia using satellite data	Scientific Report	Nature	2021	11, 3817, 1-20	SCI
15.	Subhanil Guha & Himanshu Govil	Annual assessment on the relationship between land surface temperature and six remote sensing indices using Landsat data from 1988 to 2019	Geocarto International	Elsevier	2021	In press	SCI
16.	Subhanil Guha & Himanshu Govil	Relationship between land surface temperature and normalized difference water index on	International Journal of Engineering	Dergipark	2021	2021; 6(3);	SCI

		various land surfaces: A seasonal analysis	and Geosciences			165-173	
17.	Himanshu Govil, Gaurav Mishra, Neetu Gill, Ajay Taloor, P. Diwan,	Mapping Hydrothermally Altered Minerals and Gossans using Hyperspectral data in Eastern Kumaon Himalaya, India	Applied Computing and Geosciences	Elsevier	2021	9, 1-7	Scopus
18.	Rajendran, S., Sadooni, F.n., Al-Kuwari, H.A., Oleg, A., Govil, H., Nasir, S., Vethamony, P.	Monitoring Oil Spill in Norilsk, Russia using satellite data	Scientific Reports	Nature	2021	In press	SCI
19.	Kumar, S.; Govil, H.; Srivastava, P.K.; Thakur, P.K.; Kushwaha, S.P.S	Multifrequency PolInSAR-Based Inversion Modelling for Forest Height Retrieval	<i>Remote Sensing</i>	MDPI	2020	12, 4042, 2-27	SCI
20.	Babu, A., Kumar, S. & Govil, H. (2020)	Investigation on the Effects of Polarization Orientation Angle Shift in the UAVSAR Polarimetric Decomposition	J Indian Soc Remote Sensing	Springer	2020	Issue not given yet	SCI
21.	Subhanil Guha & Himanshu Govil	Land surface temperature and normalized difference vegetation index relationship: a seasonal study on a tropical city	SN Applied Sciences	Springer	2020	(2020) 2:1661	SCI
22.	Subhanil Guha & Himanshu Govil	Seasonal impact on the relationship between land surface temperature and normalized difference vegetation index in an urban landscape	Geocarto International	Taylor and Francis	2020	1-21	SCI
23.	Monika, Himanshu Govil, Pralay Bhaumik	A review on surface deformation evaluation using multitemporal SAR interferometry techniques	Spatial Information Research	Springer	2020	Issue not given yet	SCI
24.	Ram Moorat Singh, Himanshu Govil, Arjun Pratap Shahi, Rakesh Bhambri	Characterizing the Glacier Surge Dynamics in Yarkand basin, Karakoram using Remote Sensing	Quaternary International	Elsevier	2020	Issue not given yet	SCI
25.	Subhanil Guha, Himanshu Govil, Anindita Dey & Neetu Gill	A long-term seasonal analysis on the relationship between LST and NDBI using Landsat data	Quaternary International	Elsevier	2020	Issue not given yet	SCI
26.	Khan, A., Govil, Himanshu	Evaluation of potential sites for soil erosion risk in and around Yamuna River flood plain using RUSLE	Arabian Journal of Geosciences	Springer	2020	13: 707, 1-13	SCI
27.	Subhanil Guha, Himanshu Govil, and	An investigation on seasonal variability between LST and NDWI in an urban	Geomatics, Natural	Taylor and	2020	11, 01, 1319–	SCI

	Monika	environment using Landsat satellite data	Hazards and Risk	Francis		1345	
28.	Subhanil Guha, Himanshu Govil, and Prabhat Diwan	Monitoring LST-NDVI Relationship Using Premonsoon Landsat Datasets	Advances in Meteorology	HIndwai	2020	2020, 1-15	SCI
29.	Armugha Khan, Himanshu Govil, Ajay Kumar Taloor, Gaurav Kumar	Identification of artificial groundwater recharge sites in parts of Yamuna river basin India based on remote sensing and geographical information system	Groundwater for Sustainable Development	Elsevier	2020	11, 1-15	Scopus
30.	Subhanil Guha, Himanshu Govil, Anindita Dey & Neetu Gill	A case study on the relationship between land surface temperature and land surface indices in Raipur City, India	Danish Journal of Geography	Taylor and Francis	2020	120, 1, 35-50	SCI
31.	Subhanil Guha, Himanshu Govil, Neetu Gill & Anindita Dey	Analytical study on the relationship between land surface temperature and land use/land cover indices	Annals of GIS	Taylor and Francis	2020	26, 2, 201-216	SCI
32.	Mahesh Kumar Tripathi & H. Govil	Regolith mapping and geochemistry of hydrothermally altered, weathered and clay minerals, Western Jahajpur belt, Bhilwara, India,	Geocarto International	Taylor and Francis	2020	1-15	SCI
33.	Rakesh Bhambri, C. Scott Watson, Kenneth Hewitt, Umesh K. Haritashya, Jeffrey S. argel, Arjun Pratap Shahi, Pritam Chand, Amit Kumar, Akshaya Verma & Himanshu Govil	The hazardous 2017-2019 surge and river damming by Shispare Glacier, Karakoram	Nature Scientific Report	Nature	2020	(2020) 10:4685, 1-14	SCI
34.	Armugha Khan, Himanshu Govil, Gaurav Kumar & Rucha Dave	Synergistic use of Sentinel-1 and Sentinel-2 for improved LULC mapping with special reference to bad land class: a case study for Yamuna River floodplain, India	Spatial Information Research	Springer	2020	1-15	SCI
35.	Mahesh Kumar Tripathi, H. Govil, S.L. Chattoraj	Identification of hydrothermal altered/weathered and clay minerals through airborne AVIRIS-NG hyperspectral data in Jahajpur, India	Heliyon	Elsevier	2020	6 (2020) 1-11	SCI
36	Guha, S., Govil, H	An assessment on the relationship between land surface temperature and normalized difference vegetation index	Environment, Development and Sustainability	Springer	2020	Issue not given yet	SCI

## Department of Biotechnology

Sl. No	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/Scopus/Others)
1	Preeti Chaturvedi, Parul Shukla, Balendu Shekher Giri, Pankaj Chowdhary, Ram Chandra, Pratima Gupta, Ashok Pandey	Prevalence and hazardous impact of pharmaceutical and personal care products and antibiotics in environment: A review on emerging contaminants	Environmental Research	Academic Press	1/2021	110664	SCI
2	Preeti Chaturvedi, Pankaj Chowdhary, Anuradha Singh, Deepshi Chaurasia, Ashok Pandey, Ram Chandra, Pratima Gupta	Dissemination of antibiotic resistance genes, mobile genetic elements, and efflux genes in anthropogenically impacted riverine environments	Chemosphere	Pergamon	1/2021	129693	SCI
3	Preeti Chaturvedi, Anuradha Singh, Pankaj Chowdhary, Ashok Pandey, Pratima Gupta	Occurrence of emerging sulfonamide resistance (sul1 and sul2) associated with mobile integrons-integrase (intI1 and intI2) in riverine systems	Science of The Total Environment	Elsevier	1/2021	761, 142217	SCI
4	Batul Diwan, Pratima Gupta	A Deuteromycete isolate Geotrichum candidum as oleaginous cell factory for medium-chain fatty acid-rich oils	Current Microbiology	Springer	11/2020	77,3738-3749	SCI
5	Batul Diwan & P. Gupta	Synthesis of MCFA and PUFA rich oils by enzymatic structuring of flax oil with single cell oils	LWT	Academic Press	11/2020	109928	SCI
6	Piyush Parkhey, Aadil Keshaw Ram, Batul Diwan, J Satya Eswari, Pratima Gupta	Artificial neural network and response surface methodology: a comparative analysis for optimizing rice straw pretreatment and saccharification	Preparative biochemistry & biotechnology	Taylor & Francis	9/2020	50, 768-780	SCI
7	Suresh Chandra Phulara, Swapnil Pandey, Anubhuti Jha, Puneet Singh Chauhan, Pratima Gupta, Virendra Shukla	Hemiterpene compound, 3, 3-dimethylallyl alcohol promotes longevity and neuroprotection in Caenorhabditis elegans	GeroScience	Springer International Publishing	7/2020	1-17	SCI
8	Preeti Chaturvedi, Deepshi Chaurasia, Ashok Pandey,	Co-occurrence of multidrug resistance, $\beta$ -lactamase and plasmid mediated AmpC genes in bacteria isolated from river Ganga,	Environmental Pollution	Elsevier	12/2020	267,1155-02	SCI

	Pratima Gupta	northern India					
9	Roshni Meghnani, Mohit Kumar, G. Pugazhenthii, Vasanth Dhakshinamoorthy	Synthesis of ceramic membrane using inexpensive precursors and evaluation of its biocompatibility for hemofiltration application	Separation and Purification Technology	Elsevier	2021	256	SCI
10	Lata S B Upadhyay and Sonali Rana	Microbial exopolysaccharides: Synthesis pathways, types and their commercial applications	International Journal of Biological Macromolecules	Elsevier	2020	15;157:577-583	SCI
11	Lata S B Upadhyay and Nikhil Kumar	Enzyme Immobilization over Polystyrene Surface Using Cysteine Functionalized Copper Nanoparticle as a Linker Molecule	Applied Biochemistry and Biotechnology	Springer	2020	21;191(3):1247-1257	SCI
12	Singh P, Kumar A*	Deciphering the function of unknown cytosolic proteins of <i>Leishmania donovani</i> using hyperparameter-tuned Random Forest	<i>Network Modeling Analysis in Health Info Bioinfo;</i>	Springer, GERMA NY/	Dec/2020	9(1):2	ESCI
13	Panigrahy SK, Jha A, Bhatt R, Kumar A*	Molecular docking and ADMET based mining of terpenoids against targets of type-II diabetes	<i>Network Modeling Analysis in Health Info Bioinfo;</i>	Springer, GERMA NY/	Dec/2020	9(1):2	ESCI
14	Prusty JS, Kumar A*	Coumarins: Antifungal effectiveness and future therapeutic scope	<i>Molecular Diversity;</i>	Springer, GERMA NY/	Nov/2020	24:1367–1383	SCI
15	Karn SK, Bhambri A, Jenkinson IR, Duan J, Kumar A	Biomolecules and their possible role in corrosion induction and corrosion inhibition: A possible insight	<i>Corrosion Reviews;</i>	De Gruyter, GERMA NY	Oct/2020	38 (5):403–421	SCI
16	Paroha R, Chourasia R, Kumar A, Vyas A Chaurasiya S Singh A	Host Phospholipase C- $\gamma$ 1 impairs phagocytosis and killing of mycobacteria by J774A.1 murine macrophages	<i>Microbiology &amp; Immunology ;</i>	Wiley, New Jersey, USA	Oct/2020	64(10):694-702	SCI
17	Kumar A, Pandey SC, Samant M*	A spotlight on the diagnostic methods of a fatal disease Visceral Leishmaniasis	<i>Parasite Immunol;</i>	Wiley, New Jersey, USA/	Oct/2020	42(10):e12727	SCI
18	Panigrahy SK, Kumar A*, Bhatt R*	In Vitro and In Vivo Anti-diabetic Activity of Fractions Obtained from the Unexplored <i>Hedychium coronarium</i> Rhizome	<i>PNAS, India Section B: Biol Sci;</i>	Springer, GERMA NY/	Sept/2020	90(3):605–614	SCI
19	Kumar A*	Virtual global biorepository: access for all to speed-up result-oriented research	<i>Cell and tissue banking;</i>	Springer, GERMA NY	Sept/2020	21(3):361–365	SCI
20	Pandey SC, Kumar A*, Samant M*	Genetically modified live attenuated vaccine: a potential strategy to combat visceral leishmaniasis	<i>Parasite Immunol;</i>	Wiley, New Jersey	Sept/2020	42(9):e12732	SCI

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21	Jha A, Kumar A, Kumar A*	Subtractive proteome analysis approach divulges promising drug targets in <i>Candida albicans</i>	<i>Int J Peptide Res &amp; Therapeutics;</i>	Springer, GERMA NY/	Sept/2020	26(3), 1559-1566	SCI
22	Nirala N, Periyasami R, Kumar A*	Study of Skin flow motion pattern using photoplethysmogram	<i>Int J Adv Intelligence Paradigms;</i>	Inderscience Publishers, UK/	Sept/2020	16(3/4):241-264	Scopus
23	Kumar A, Bharti SK, Kumar A*	In-vitro characterization of mucoadhesive polysaccharide polymers tablets fabricated using FTIR press	<i>Istanbul J of Pharm;</i>	DergiPark Academy, ISTANBUL/	Aug/2020	50(2):79 - 82	ESCI
24	Kumar A, Pandey SC, Samant M*	DNA-based microarray studies in visceral leishmaniasis: identification of biomarkers for diagnostic, prognostic and drug target for treatment	<i>Acta Tropica;</i>	Elsevier, Amstmd, NETHERLANDS/	Aug/2020	208:105512	SCI
25	Behera SS, Sheikha AFE, Hammami R, Kumar A*	Traditionally fermented pickles: How the microbial diversity associated with their nutritional and health benefits?	<i>J of Functional Foods;</i>	Elsevier, Amstmd, NETHERLANDS/	July/2020	70 (2020) 103971	SCI
26	Jha A, Kumar A*	Multiple drug targeting potential of novel ligands against virulent proteins of <i>Candida albicans</i>	<i>Int J Peptide Res &amp; Therap;</i>	Springer, GERMA NY/	June/2020	26 (2): 921–942	SCI
27	Behera SS, Priyadarshini M, Kumar A*	Optimization for Bio-processing of Elephant foot yam ( <i>Amorphophallus paeoniifolius</i> ) into Lacto-pickle using Taguchi Statistical approach	<i>J of Food Measur Characterization;</i>	Springer, GERMA NY/	June/2020	14(3):1470-1480	SCI
28	Sinha A, Nishant N, Kumar A	A mathematical model of Adiponectin resistance	<i>J Theoretical Biol;</i>	Elsevier, Amstmd, Netherlands	June/2020	494 (110246)	SCI
29	Kumar A, Kumar A*	The virtuous potential of Chitosan oligosaccharide for promising biomedical applications	<i>Journal of Materials Res;</i>	Cambridge Univ Press, UK	May/2020	35 (9):1123-1134	SCI
30	Tripathi S, Parmar J, Kumar A*	Structure-based immunogenicity prediction of Uricase from fungal ( <i>Aspergillus flavus</i> ), bacterial ( <i>Bacillus subtilis</i> ) and mammalian sources using immunoinformatic approach	<i>The Protein J;</i>	Springer, GERMA NY	April/2020	39 (2):133–144	SCI
31	Bakht A, Imran M, Khan A, Alam T, El Hassane A, Alshammari M, Ajmal N, Vimal A, Kumar A	An Improved Synthesis of Key Intermediate to the Formation of selected Indolin-2-ones Derivatives Incorporating Ultrasound and Deep Eutectic Solvent (DES) Blend of Technique, for some Biological Activities and Molecular Docking Studies	<i>Molecules;</i>	MDPI, Switzerland	Mar/2020	25(5):1118	SCI
32	Jha A, Verma S, Kumar A*	Identification of potential inhibitors targeted for strengthening search of anti-leishmanial therapeutics	<i>Biologia;</i>	Springer, GERMA NY/	Mar/2020	75:437–445	SCI

33	Kumar A*	Survival strategies of Leishmania parasite inside macrophage and drug resistance: Too many questions and few answers	<i>Current Pharma Reports:</i>	Springer, GERMA NY/	Feb/2020	6 (2): 25–27	SCI
34	Panigrahy SK, Kumar A*, Bhatt R	<i>Hedychium coronarium</i> rhizomes: Promising anti-diabetic and natural inhibitor of $\alpha$ -amylase and $\alpha$ -glucosidase	<i>Journal of Dietary Supplements;</i>	Taylor & Francis, UK	Jan/2020	17(1): 81-87	SCI
35	Yadav M, Dhagat S, Eswari JS	Structure based drug design and molecular docking studies of anti-cancer molecules paclitaxel, etoposide and topotecan using Novel ligands	Current drug discovery technologies	Bentham Science	2020	17(2):183-190	Scopus
36	Swasti Dhagat, Satya Eswari Jujjavarapu	Isolation of a novel thermophilic bacterium capable of producing high-yield bioemulsifier and its kinetic modelling aspects along with proposed metabolic pathway	Brazilian Journal of Microbiology	Springer	2020	51(1):135-143	SCI
37	Yadav M, Dhagat S, Eswari JS	Emerging strategies on in silico drug development against COVID-19: challenges and opportunities	European Journal of Pharmaceutical Sciences	Elsevier	2020	155: 105522	SCI
38	Aditya L Toppo, Manisha Yadav, Swasti Dhagat, Seenivasan Ayothiraman, Jujjavarapu Satya Eswari	Molecular docking and ADMET analysis of synthetic statins for HMG-CoA Reductase inhibition activity	Indian Journal of Biochemistry and Biophysics	NISCAIR Online Periodicals Repository (NOPR)	2021	Accepted	SCI
39	Swasti Dhagat, Satya Eswari Jujjavarapu,	Biorefinery system for the production of thermostable exopolysaccharide by a novel thermophile <i>Brevibacillus borstelensis</i> MK878423 and its study on impact of glucose utilization	Biomass conversion and biorefinery	Springer	2021	Accepted	SCI
40	J Satya Eswari, Jihen Majdoubi, Sweta Naik, Sneha Gupta, Arindam Bit, Mohammad Rahimi-Gorji, Anber Saleem	Prediction of stenosis behaviour in artery by neural network and multiple linear regressions	Biomechanics and modeling in mechanobiology	Springer	2020	19(5), 1697–1711	SCI
41	S Naik, SE Jujjavarappu	Simultaneous bioelectricity generation from cost-effective MFC and water treatment using various wastewater samples	Environmental Science and Pollution Research	Springer	2020	27 (22), 27383-27393	SCI
42	J Satya Eswari, Sweta Naik	A critical analysis on various technologies and functionalized materials for manufacturing dialysis membranes	Materials Science for Energy Technologies	Elsevier	2020		



43	SE Jujjavarapu, K Chandrasekhar, S Naik, AL Toppo, V Thakur	Source of Natural Polymers from Plants with Green Nanoparticles	CRC PRESS		2020		
44	S Naik, A Tirkey, SE Jujjavarapu	Synthesis and characterization of nanocomposites of Animal Origin	CRC PRESS		2020		
45	S Naik, K Chandrasekhar, SE Jujjavarapu	Synthesis of Green Polymeric Nanocomposites using Electrospinning	CRC PRESS		2020		
46	Suryawanshi N, Jujjavarapu SE	Chitin from seafood waste: Particle swarm optimization and Neural network study for the improved chitinase production	Journal of Chemical Technology and Biotechnology	Wiley online library	2020	Accepted	SCI
47	Suryawanshi N, Jujjavarapu SE	Shrimp Shell Waste as a Potential Raw Material for Bio-Refinery – a Revisit	Journal of Biomass Conversion and Biorefinery	Springer	2020	Accepted	SCIE
48	Suryawanshi N, Sahu J, Moda Y, Eswari JS	Optimization of process parameters for improved chitinase activity from <i>Thermomyces</i> sp. by using artificial neural network and genetic algorithm	Preparative Biochemistry & Biotechnology	Taylor & Frances	2020	2;50(10): 1031-41	SCI
49	Suryawanshi N, Ayothiraman S, Eswari JS	Ultrasonication mode for the expedition of extraction process of chitin from the maritime shrimp shell waste	Indian Journal of Biochemistry and Biophysics	NOPR-NISCAIR		29;57(4): 431-8.	SCIE
50	V. Sharma, L. S. B. Upadhyay, and D. Vasanth	Extracellular Thermostable Laccase-Like Enzymes from <i>Bacillus licheniformis</i> Strains: Production, Purification and Characterization	Applied Biochemistry and Microbiology	Springer	2020	56(4)	Scopus

## Department of Chemistry

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	Ch Chandra, Fahmida Khan	Nano scale zerovalent nickel: Green synthesis, characterization, and efficient removal of lead from aqueous solution	Inorganic and Nano-Metal Chemistry	Taylor and Francis	2020	50, 10 Pg	SCI

						1044-1052	
2	Ch Chandra, Fahmida Khan	Nano-scale zerovalent copper: green synthesis, characterization and efficient removal of uranium	Journal of Radioanalytical and Nuclear Chemistry	Springer	2020	324, 2 Pg 589-597	SCI
3	Pradeep Kumar Dewangan, Fahmida Khan, Vinayak Sahu, Ch Chandra, Khilawan Patel	Fabrication of L-Cysteine functionalized Graphene quantum dots as a fluorescent nanosensing probe for determination of mercury	IOP Conference Series: Materials Science and Engineering	IOP Publishing	2020	798, 1	SCOPUS
4	Vinayak Sahu, Fahmida Khan, Pradeep Kumar Dewangan, Komal Kashyap, Khilawan Patel, Rama Devi, Vipin Kumar Soni, Sonalika Agrawal	Synthesis of blue fluorescent carbon dots for sensitive and selective detection of glucose in biological samples	IOP Conference Series: Materials Science and Engineering	IOP Publishing	2020	798, 1	SCOPUS
5	Fahmida Khan, Subrat Kumar Pattanayak, Padma Rani Verma, Pradeep Kumar Dewangan	Biofabrication of graphene QDs as a fluorescent nanosensor for detection of toxic and heavy metals in biological and environmental samples	Smart Biosensors in Medical Care	Academic Press	2020	139-152	SCI
6	Vinayak Sahu, Fahmida Khan	Synthesis of bovine serum albumin capped boron-doped carbon dots for sensitive and selective detection of Pb (II) ion	Heliyon	Elsevier	2020	6, 5	SCI
7	Padma Rani Verma, Fahmida Khan, Subhash Banerjee	Salvadora persica root extract-mediated fabrication of ZnO nanoparticles and characterization	Inorganic and Nano-Metal Chemistry	Taylor & Francis	2020	1-7	SCI
8	Satya Narayan Sahu, Maheswata Moharana, Purna Chandra Prusti, Shanta Chakrabarty, Fahmida Khan, Subrat Kumar Pattanayak	Real-time data analytics in healthcare using the Internet of Things	Real-Time Data Analytics for Large Scale Sensor Data	Academic Press	2020	37-50	SCI
9	Padma Rani Verma, Soumen Payra, Fahmida Khan, Santosh Penta, Subhash Banerjee	CuBr <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> -Catalyzed Highly Selective Aerobic Oxidation of Alcohol and Toluene Derivatives	ChemistrySelect		2020	5, 6 Pg 1950-1955	SCI

10	Varsha Chandrakar, Kavita Tapadia, Saurabh Gupta	Greener production of silver nanoparticles: a sensitive nanodrop spectrophotometric determination of biothiols,	<i>Chemical Papers,</i>	Springer	2021	DOI: 10.1007/s11696-021-01565-3	SCI
11	Mayank Singh, Kavita Tapadia, Dalchand Jharia, Pokhraj Sahu.	Evaluation of Uranium containing ground water quality and non-carcinogenic risk assessment in inhabitant of Bijapur district of Chattisgarh, Central India”	“ <i>Journal of Radioanalytical and Nuclear Chemistry,</i>	Springer	2021	327, 1-9.	SCI
12	R Rama Devi, Kavita Tapadia, Tushar Kant, Archana Ghosale, Kamlesh Shrivastava, Indrapal Karbhaj, Tungabidya Maharana.	“ A low-cost paper-based flexible energy storage device using a conducting polymer nanocomposite”.	<i>New journal of Chemistry,</i>	RSC	2020	44, 13446-13457.	SCI
13	Rama Devi, Kavita Tapadia, Tungabidya Maharana.	Casting of carbon cloth enrobed polypyrrole electrode for high electrochemical performances”	“ <i>Heliyon,</i>	Elsevier	2020	6, 03122	SCI
14	Saurabh Kumar Gupta, Kavita Tapadia, Ashima Sharma.	“A Sensitive Nanodrop method for the Micro Level Determination of Cationic Surfactant Methyltriethylammonium Chloride (MTOAC) in Biological Fluids and Environmental Samples”	<i>Journal of Iranian Chemical Society</i>	Springer	2020	18, 1-7	SCI
15	Saurabh Kumar Gupta, Kavita Tapadia, Ashima Sharma.	Selective Fluorometric Analysis of Hg (II) in Industrial Waste Water Samples.	<i>Journal of Fluorescence</i>	Springer	2020	30, 1375-1381.	SCI
16	Govind Sahu, M. S. Rajput and S. P. Mahapatra	Morphology, Mechanical and Rheological Properties Poly(lactic Acid) Nanocomposite Film	Journal of Nano- and Electronic Physics	Sumy State University	2020	12 (2), 02004	Scopus
17	Pushpendra Kumar, Santosh Penta, Shyama Prasad Mahapatra	Synthesis and Dielectric Relaxation Spectroscopy of Graphene Oxide Nanoparticles: Effects of Frequency, Thickness, and Temperature	Journal of Electronic Materials	Springer	2020	49, 5801-5807	SCI
18	Neha Jha, Gautam Sarkhel and S. P. Mahapatra	Morphology, Barrier and Electrical properties of oil-extended EPDM/nanographite nanocomposites	Materials Today: Proceedings Journal	Elsevier	2020	In Press	Scopus
19	Neha Jha and S. P. Mahapatra	Mechanical, thermal and impedance properties of oil-extended EPDM/MWCNT nanocomposites: Efficacy of MWCNT reinforcement	Journal of the Indian Chemical Society	Elsevier	2021	In Press	Scopus
20							

	Govind Sahu, M. S. Rajput and S. P. Mahapatra	Polylactic acid nanocomposites for biomedical applications: effects of calcium phosphate, and magnesium phosphate nanoparticles concentration	Plastics, Rubber and Composites	Taylor & Francis	2021	In Press	SCIE
21	Rama Devi, <sup>a</sup> Kavita Tapadia, <sup>a</sup> Tushar Kant, <sup>b</sup> Archana Ghosale, <sup>c</sup> Kamlesh Shrivastava, Indrapal Karbhal <sup>b</sup> and Tungabidya Maharana	A low-cost paper-based flexible energy storage device using a conducting polymer nanocomposite	<i>New J. Chem</i>		2020	13446-13457: 44	SCI
22	Harish Chandra Pradhan, Somanath Mantri, Tungabidya Maharana & Alekha Kumar Sutar	Cobalt(II) complex-catalyzed solventless coupling of CO <sub>2</sub> and epoxides	Chemical Papers		2020	1-8	SCI
23	Rama Devi, Kavita Tapadia, Tungabidya Maharana	Casting of carbon cloth enrobed polypyrrole electrode for high electrochemical performances	Heliyon		2020	e03122, 6	SCI
24	Harish Chandra Pradhan, Somanath Mantri, Anita Routaray, Tungabidya Maharana and Alekha Kumar Sutar	Cobalt (II) complex catalyzed polymerization of lactide and coupling of CO <sub>2</sub> and styrene oxide into cyclic styrenecarbonate	J. Chem. Sci.		2020	25, 132	SCI
25	V. K. Verma, K. Tapadia, T. Maharana, and A. Sharma	Ultrasensitive Fluorescence Determination Of 6-Thioguanine In Biological Samples Based On The Silver Nanoparticle-Mediated Release Of Acridine Orange Probe	<i>Journal of Applied Spectroscopy</i>		2020	357-363.87	SCI
26	Vidya G. Kartha, Vandana Suryavanshi and Tungabidya Maharana	<i>Cassia alata</i> Seed Extract Loaded Chitosan: Synthesis and Release Study	<i>Asian Journal of Chemistry</i>		2020	21-25, 32	SCOPUS
27	Khilawan Patel, Rama Devi, Pradeep Kumar Dewangan, Vinayak, Alekha Kumar Sutar and Tungabidya Maharana	A Novel Method for the Removal of Uranium by Using Carboxyl Functionalized Graphene Oxide	IOP Conference Series: Materials Science and Engineering		2020	798	SCOPUS

28	Rama Devi <sup>1</sup> , Khilawan Patel <sup>1</sup> , Vinayak Sahu <sup>1</sup> , Komal Kashyap <sup>1</sup> , Kavita Tapadia <sup>1</sup> and Tungabi dya Maharana <sup>1</sup>	Fabrication and Characterization of Polypyrrole Nanoparticles for Supercapacitor Electrode Materials	IOP Conference Series: Materials Science and Engineering		2020	798	SCOPUS
29	Komal Chandrakar, Jeevan Lal Patel, S. P. Mahapatra, Santhosh Penta	Recent Advances in On-Water Multicomponent Synthesis of Coumarin Derivatives	Current Organic Chemistry	Bentham Science	2020	Vol: 24: Page: 2601- 2611	SCIE- Internati onal Journal
30	Srishylam Penjarla, Subir Kumar Sabui, Dhande Sudhakar Reddy, Shyamapada Banerjee, Paidi Yella Reddy, Santhosh Penta, Yogesh S.Sanghvi	An efficient synthesis tetrazole and oxadiazole analogues of novel 2'-deoxy-C-nucleosides and their antitumor activity	Bioorganic & Medicinal Chemistry Letters	Elsevier	2020	Volume 30, 127612	SCIE- Internati onal Journal
31	Aradhya Mishra, Archana Panigrahi, Priyanath Mal, Santhosh Penta, G.Padmaja Ganesh Bera, Pradip Das, P.Rambabu, Goverdhan Reddy Turpu,	Rapid photodegradation of methylene blue dye by rGO- V <sub>2</sub> O <sub>5</sub> nano composite.	Journal of Alloys and Compounds	Elsevier	2020	Volume 842, 25 November 2020, 155746	SCIE- Internati onal Journal
32	Padma Rani Verma, Dr. Soumen Payra, Prof. Fahmida Khan, Dr. Santhosh Penta, Dr. Subhash Banerjee.	CuBr <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> -Catalyzed Highly Selective Aerobic Oxidation of Alcohol and Toluene Derivatives.	Chemistry Select	Wiley	2020	Volume 5, Issue 6, February 14, 2020, Pages 1950- 1955	SCIE- Internati onal Journal
33	Srinivasa Rao Ambati, Jeevan Lal Patel, Satish Gudala, Subhash Banerjee and Santhosh Penta.	Synthesis of Novel Coumarinyl-pyrido[2,3- <i>d</i> ]pyrimidine-2,4-diones Using Task-Specific Magnetic Ionic Liquid, [AcMIm]FeCl <sub>4</sub> as Catalyst.	Synthetic communications, 2020,	Taylor & Francis	2020	50, 104- 111	SCIE- Internati onal Journal
34	Ashok Kumar Bharati, Prem Lama, Kafeel Ahmad	A novel mixed ligand Zn-coordination polymer: synthesis, crystal structure, thermogravimetric analysis and photoluminescent properties	Inorganica	Elsevier	2020	500 , 119219	SCI

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36	Ravi Pratap Singh, Vinay Kumar Maurya, Lal Bahadur Prasad, Kafeel Ahmad Siddiqui	Three novel Cd (II) dithiocarbamate complexes: synthesis, structural diversity and fluorescence properties	Journal of the Iranian Chemical Society	Springer Berlin Heidelberg	2020	17 ,2867-2876	SCOPUS
37	Ashok Kumar Bharati, M Fátima C Guedes da Silva, Kafeel Ahmad Siddiqui	A new Cd-coordination polymer based on 1, 3-di (4-pyridyl) propane: synthesis, crystal structure, thermogravimetric analysis, and photoluminescent properties	Journal of Coordination Chemistry	Taylor & Francis	2020	73 ,2265-2274	SCI
38	Ashok Kumar Bharati, Prem Lama, Dariusz Bieńko, Kafeel Ahmad Siddiqui	Synthesis and magneto-structural analysis of H-bonded Cu/Ni-ototate coordination polymers	Journal of Molecular Structure	Elsevier	2021	1223 , 128964	SCI
39	Santosh B. Singh	Emerging Sustainable Nanomaterials and their applications in Catalysis and Corrosion Control	Current Nanoscience	Bentham Science	2020	16, 1 (E-pub Ahead of Print)	SCI
40	Santosh B. Singh	Book Chapter-Nanocapsules: an engineered nanomaterial for smart self-healing coating and catalysis	In Book- Handbook of Nanomaterials for Manufacturing Applications	Elsevier Inc., Amsterdam,	2020	Ch. 07, pp. 175-189	Scopus/ Others
41	Santosh B. Singh, C.M. Hussain	Book Chapter-Functionalized nanographene for catalysis	In Book- Handbook of Functionalized Nanomaterials	Elsevier Inc., Amsterdam	2020	Ch. 05, pp. 111-129	Scopus/ Others

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42	Santosh B. Singh	Book Chapter-Enzymes as green biopolymeric material in environmental remediation: A greener approach	In Book-Applications of Advanced Green Materials	Elsevier Inc. Amsterdam	2020	Ch. 21, pp. 529-543	Scopus/Others
43	Santosh B. Singh	Book Chapter-Applications of catalyzed redox processes in water remediation	In Book-Handbook of Advanced Approaches, Volume 1	Elsevier Inc. Amsterdam	2021	Ch. 5, pp. 97-118	Scopus/Others
44	V. Sahu, F. Khan, P. Dewangan, K. Kashyap, K. Patel, R. Devi, V. Soni, & S. Agrawal	Synthesis of blue fluorescent carbon dots for sensitive and selective detection of glucose in biological samples	IOP Conference Series: <i>Materials Science and Engineering</i>	IOP publishing	2020	798, 1	Scopus
45	S.N. Sahu, B. Mishra, R. Sahu, S.K. Pattanayak*	Molecular dynamics simulation perception study of the binding affinity performance for main protease of SARS-CoV-2	Journal of Biomolecular Structure and Dynamics	Taylor & Francis	2021	<i>In press</i>	Scopus
46	S.N. Sahu, T. Sahoo, B. Mishra, S.K.Pattanayak*, R Sahu	Interaction of Ru-4'-(2-pyridyl)-2, 2': 6', 2''-Terpyridine with Diseased HER2 Protein	Advances in Mechanical Processing and Design	Spriger	2021	413-419	Scopus
47	J .Panda, S.N. Sahu, J.K. Sahoo, S.P. Biswal, S.K. Pattanayak, R. Samantaray, R..Sahu	Efficient removal of two anionic dyes by a highly robust zirconium based metal organic framework from aqueous medium: Experimental findings with molecular docking study	Environmental Nanotechnology, Monitoring & Management	Elsevier	2020	14, 100340	Scopus
48	S.N. Sahu, R. Sahu, S.K. Pattanayak*	Molecular interaction study of phytochemicals with native and mutant protein related to nephrotic syndrome	AIP Conference Proceedings	American Institute of Physics	2020	2270 (1), 020002	Scopus
49	R .Panda, S.N. Sahu, F. Khan*, S.K .Pattanayak*	Binding performance of phytochemicals with mutant threonine-protein kinase Chk2 protein: An in silico study	AIP Conference Proceedings	American Institute of Physics	2020	2270 (1), 020003	Scopus
50	J. Panda, S.N Sahu, R. Pati, P.K. Panda,	Role of Pore Volume and Surface Area of Cu-BTC and MIL-100 (Fe) Metal-Organic	ChemistrySele	Wiley	2020	5 (40), 12398-	Scopus

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51	J. Panda, S.N. Sahu, T. Sahoo, B. Mishra, S.K. Pattanayak, R. Sahu	Theoretical Investigation of Metal–Organic Frameworks and Their Derived Materials for the Adsorption of Pharmaceutical and Personal Care Products	Applications of Metal–Organic Frameworks and Their Derived Materials	John Wiley & Sons, Inc.	2020	287-312	(John Wiley & Sons, Inc Book Chapter)
52	S .Sahoo, S.N. Sahu, S.K. Pattanayak, N. Misra, M. Suar	Biosensor and its implementation in diagnosis of infectious diseases(Book Chapter)	Smart Biosensors in Medical Care,	Academic Press: Elsevier	2020	29-47	Academic Press Book Chapter)
53	S.N. Sahu, M. Moharana, P.C. Prusti, .S Chakrabarty, F. Khan, S.K. Pattanayak*	Real-time data analytics in healthcare using the Internet of Things	Real-Time Data Analytics for Large Scale Sensor Data	Academic Press: Elsevier	2020	37-50	(Academic Press : Book chapter)
54	F .Khan, S.K. Pattanayak, P.R. Verma, P.K. Dewangan	Biofabrication of graphene QDs as a fluorescent nanosensor for detection of toxic and heavy metals in biological and environmental samples	Smart Biosensors in Medical Care,	Academic Press: Elsevier	2020	139-152	(Academic Press : Book chapter)
55	M. Moharana, S.K. Pattanayak*	Biosensors: a better biomarker for diseases diagnosis	Smart Biosensors in Medical Care,	Academic Press: Elsevier	2020	49-64	(Academic Press : Book chapter)
56	S.N. Sahu, J.Panda, R. Sahu, T. Sahoo, S. Chakrabarty, S.K. Pattanayak*	Healthcare Information Technology for Rural Healthcare Development: Insight into Bioinformatics Techniques	Internet of Things, Smart Computing and Technology: A Roadmap Ahead,	Springer, Cham	2020	151-169	(Springer , Cham :Book chapter)
57	Supriya Priyambada Biswal, Prabhudatta Hota, Amitabh Mahapatra, Bijnyan Ranjan Das, Manas Ranjan Dash, Pramila K. Misra	Exploration of electron transport behaviour of a push-push anil for possible application as an optical material	Materials Today: Proceedings	Elsevier	2020	Accepted (under proof reading)	Scopus



## Department of Civil Engineering

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/Scopus/Others)
1	Malathy R.B., Bhat G., Dewangan U.K.,	Design and development of low-cost Medium size shake table for vibration Analysis"	Lecture Notes In Civil Engineering:	Springer	2020	pp. 191-203.	Scopus
2	Dewangan A., Bhatt G., Sonkar C.	Structural stability of cold-formed steel Wall studs under compression by dsm Approach	Lecture Notes In Civil Engineering	Springer	2020	vol. 83, pp. 527-536.	Scopus
3	Jain V., Bhatt G.,	"Application of finite Element modeling for assessing the fire Ratings of beams	Lecture Notes In Civil Engineering	Springer	2020	vol. 83, pp. 865-877.	Scopus
4	Dhadse G.D., Ramtekkar G.D., Bhat G	"Response of single and multilayered Flexible base for static and earthquake Loading under framed rc structure."	Lecture Notes In Civil Engineering	Springer	2020	vol. 81, pp. 169-183..	Scopus
5	Bakshi S., Bhatt G., Bano A.	Evaluation of Equivalent time of fire exposure for a Hospital building: a case study	Advances In Industrial Safety	Springer	2020	pp. 23-31.	Scopus
6	Sharma, A., Tripathi, R.K. & Bhat, G.	"Seismic assessment of rc building frames Using direct-displacement-based and Force-based approaches".	Innovative. Infrastructure. Solutions.	Springer	2020.	Vol 5, 115	Scie
7	Dewangan A., Bhatt G., Sonkar C.,	Axial Strength Estimation Of Cold Formed Steel Wall Panels Through numerical Modeling"	Emerging Trends In Civil Engineering	Springer	2020	vol. 61. pp. 91-100.	Scopus
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9	Malathy, R.B., Bhat, G. & Dewangan U.K.,	"Generalized logic for modeling and Obtaining harmonic estimation in shake Table using lab view with experimental Validation".	Asian J Civ. Eng.	Springer	2020	vol. 21, pp. 985-994	Scimago, Scopus
10	P. Ganasala and A. D. Prasad	Contrast enhanced multi sensor image fusion based on guided image filter and nsst	Ieee Sensors Journal	IEEE	2020	vol. 20, no. 2, pp. 939-946	Sci
11	Vinit Lambey, A. D. Prasad	A review on air quality measurement using an unmanned aerial vehicle	Water Air and Soil Pollution	Springer	2021	Vol. 232	Sci
12	Ramgopal Sahu, Mani Kant Verma, Ishtiyahq Ahmad	Regional frequency analysis using 1-moment methodology—a review	Lecture Notes in Civil Engineering	Springer	2021	vol 77, pp.811-832	Scopus

13	Verma Shashikant., A.D. Prasad, Mani Kant Verma	Trend analysis and rainfall variability of monthly rainfall in sheonath river basin, chhattisgarh	Lecture Notes in Civil Engineering	Springer	2021	vol 77, pp.777- 790	Scopus
14	Mohit Jaiswal and Gangadhar Ramtekkar, Vinanti Kulkarni	Numerical and analytical study on axial compression behavior of pultruded gfrp members	Advanced Materials Letters	VBRI Press	2020	11(9), 2009155 3	Google Scholar
15	Rath, B, Deo, S. V. and Ramtekkar, G.	Modification of aci209r-92 concrete shrinkage model for partial replacement of cement with fly ash and sand with pond ash	Advances in Civil Engineering Materials		2020	Vol.9 / No. 1 / 2020, pp 602-620	Scopus
16	Palod, R., Deo, S. V. and Ramtekkar, G.	Sustainable approach for linz-donawitz slag waste as a replacement of cement in concrete: mechanical, microstructural and durability properties	Advances in Civil Engineering		2020	<a href="https://doi.org/10.1155/2020/5691261">https://doi.org/10.1155/2020/5691261</a>	Scopus and SCI Expanded
17	Palod, R., Deo, S. V. and Ramtekkar, G.	Effect on mechanical performance, early age shrinkage and electrical resistivity of ternary blended concrete containing blast furnace slag and steel slag	Materials Today: Proceedings		2020	DOI: 10.1016/j. .matpr.20 20.04.74 7	Scopus
18	M.Nasim, U.K.Dewangan and S.V.Deo	Effect of crystalline admixture, flyash, and PVA fiber on self-healing capacity of concrete	Materials Today: Proceedings		2020	<a href="https://doi.org/10.1016/j.matpr.2020.04.062">https://doi.org/10.1016/j.matpr.2020.04.062</a>	Scopus
19	M.Nasim, U.K.Dewangan and S.V.Deo	Autonomous healing in concrete by crystalline admixture: a review	Materials Today: Proceedings		2020	<a href="https://doi.org/10.1016/j.matpr.2020.03.116">https://doi.org/10.1016/j.matpr.2020.03.116</a>	Scopus
20	Rath, B, Deo, S. V. and Ramtekkar, G.	A proposed mix design of concrete with supplementary cementitious materials by packing density method	Iranian Journal of Science and Technology, Transactions of Civil Engineering		2020	<a href="https://doi.org/10.1007/s40996-020-00362-4">https://doi.org/10.1007/s40996-020-00362-4</a>	Scopus
21	Manish Sakhlecha Dr.Samir Bajpai Dr.Rajesh Kumar Singh	Life cycle assessment of a residential Building during planning stage to Forecast its environmental impact	International Journal of Social Ecology and Sustainable Development	IGI	2021	Volume1 2, issue 1 / 131-149	Scopus
22	Nupur Kesharwani; Dr.Samir Bajpai	Batch anaerobic co-digestion of food waste and sludge: a multi criteria decision	Sn Applied Sciences	Springer	2020	Volume 2, issue 8	E-Sci

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23	Kruti Jethwa, Samir Bajpai, Pk Chaudhari	Application of a low-cost technology to treat domestic sewage and to improve	Environmental Processes and Management: Tools and Practices	Springer	2020	Volume 91 / 201	Book Chapter
24	Kruti Jethwa, Samir Bajpai, Pk Chaudhari	Application of a low-cost technology to treat domestic sewage and to improve fertility of a barren lateritic soil	Environmental Processes and Management	Springer	2020	201-223	Book Chapter
25	Tk Rajak, L Yadu, Sk Chouksey	Effect of fly ash on geotechnical properties and stability of coal mine overburden dump: an overview	Sn Applied Sciences	Springer	2020	2 (5), 1-9	Scopus
26	Alfia Bano, C Kumar and A Shukla	Effect of fly ash and fibres on strength and permeability characteristics of pervious concrete	International Journal of Recent Technology and Engineering (IJRTE)	Blue Eyes Intelligence Engineering & Sciences Publication	2020	Volume-8, Issue-4: 12089-12093	Scopus
27	Rajak, T. K., Yadu, L., Chouksey, S. K.	Strength characteristics and stability analysis of ground granulated blast furnace slag (ggbfs) stabilized coal mine overburden-pond ash mix	Geotechnical and Geological Engineering - an International Journal	Springer.	2020	38	E-sci
28	Rajak, T. K., Yadu, L., Chouksey, S. K.	Effect of fly ash on geotechnical properties and stability of coal mine overburden dump: an overview	Sn Applied Sciences	Springer	2020	2:973	E-sci
29	Pooja Shrivastava, M.K. Verma, Meena Murmu, Ishtiyah Ahmad	Performance index modeling for urban water system using hierarchical fuzzy inference approach	Lecture Notes in Electrical Engineering	Springer	2020	662, pp. 167-180	Scopus
30	Himangshu Sarkar, Sandeep Soni, Ishtiyah Ahmad, M.K. Verma	Assessment of agricultural drought in upper seonath sub-basin of chhattisgarh (india) using remote sensing and gis-based indices	Journal of The Indian Society of Remote Sensing	Springer	2020	48(6), pp. 921-933	Sci/ Scopus

31	Pooja Shrivastava, M.K. Verma, Meena Murmu, Ishtiyag Ahmad	Life cycle assessment modelling for a developing city's water system	Iop Conference Series: Materials Science and Engineering	IOP Publishing	2020	814(1), 012029	Scopus
32	Ramgopal T. Sahu Mani Kant Verma Ishtiyag Ahmad	Regional frequency analysis using l-moment methodology—a review	Lecture Notes in Civil Engineering	Springer	2020	77, pp. 811-83	Scopus
33	Ishtiyag Ahmad, M.K. Verma	Integrated planning and management of water resources in sheonath river basin of chhattisgarh state india	Water Science and Technology Library	Springer	2020	Volume 91, 413-445	---
34	Champat Lal Dewangan, Ishtiyag Ahmad	Assessment of reservoir sedimentation and identification of critical soil erosion zone in kodar reservoir watershed of chhattisgarh state, india	Lecture Notes in Civil Engineering	Springer	2020	Volume 203, 213-214	Scopus
35	Dr. R.K.Tripathi/ Sunny D Guzzarlapudi	Assessment on Harmony of Pavement Condition Index Using ASTM, IRC and Regression Techniques	International Journal of Structural and Civil Engineering Research	International Journal of Structural and Civil Engineering Research	2020	9(2)	Other
36	K Vijay, M Murmu	Effect of calcium lactate and Bacillus subtilis bacteria on properties of concrete and self-healing of cracks	International Journal of Structural Engineering	Inderscience Publishers (IEL)	2020	10(3)	Scopus
37	VN Kanthe, SV Deo, M Murmu,	Assessment of Environmental Impact and Formation Factor for Triple Blend Concrete,	Iranian (Iranica) Journal of Energy & Environment,				Scopus
38	VN Kanthe, SV Deo, M Murmu,	,Early Age Shrinkage Behavior of Triple Blend Concrete IJE TRANSACTIONS B: Applications Vol. 33, No. 8,1459-1464	IJE TRANSACTIONS B: Applications	33			Scopus

## Department of Computer Science & Engineering

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1.	V Sihag, M Vardhan, P Singh	A survey of android application and malware hardening	Computer Science Review	Elsevier	2021	39	SCI
2.	P Singh, A Kumar	Deciphering the function of unknown Leishmania donovani cytosolic proteins using hyperparameter-tuned random forest	Network Modeling Analysis in Health Informatics and Bioinformatics	Springer Vienna	2020	9, 2	SCI
3.	D Singh, DS Sisodia, P Singh	Multi-Objective Evolutionary approach for the Performance Improvement of Learners using Ensembling Feature selection and Discretization Technique on Medical data	Current Medical Imaging	Bentham Science Publishers	2020	16, 355-370	SCI
4.	AK Shukla, P Singh, M Vardhan	Gene selection for cancer types classification using novel hybrid metaheuristics approach	Swarm and Evolutionary Computation	Elsevier	2020	54, 100661	SCI
5.	D Singh, DS Sisodia, P Singh	Compositional framework for multitask learning in the identification of cleavage sites of HIV-1 protease	Journal of Biomedical Informatics	Academic Press	2020	102, 103376	SCI
6.	Pradeep Singh, Shrish Verma	ACO based comprehensive model for software fault prediction	International Journal of Knowledge-based and Intelligent Engineering Systems	IOS Press	2020	63-71	SCI
7.	N Singh, P Singh	Stacking-based multi-objective evolutionary ensemble framework for prediction of diabetes mellitus	Biocybernetics and Biomedical Engineering	Elsevier	2020	40, 1-22	SCI
8.	AK Shukla, P Singh, M Vardhan	An adaptive inertia weight teaching-learning-based optimization algorithm and its applications	Applied Mathematical Modelling	Elsevier	2020	77, 309-326	SCI
9.	Sharaff, A., Nagwani, N.K.	ML-EC <sup>2</sup> : An algorithm for multi-label email classification using clustering	International Journal of Web-Based Learning and Teaching Technologies	IGI Global Publishers	2020	15(2), pp. 19-33	Scopus
10.	Sahu, M., Verma, S., Nagwani, N.K., Shukla, S.	EEG signal analysis and classification on P300 speller-based BCI performance in ALS patients	International Journal of Medical Engineering and Informatics	Inderciece Publishers	2020	12(4), pp. 375-400	Scopus and SCIE
11.	A Pujahari, DS Sisodia	Preference relation based collaborative filtering	Applied Intelligence	Springer US	2021	51 (2), 658-672	SCI

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12.	Deepti Sisodia Dilip Singh Sisodia	"Gradient boosting learning for fraudulent publisher detection in online advertising	Data Technologies and Applications	Emerald Publishing Limited	2020	ISSN: 2514-9288	SCI
13.	Abinash Pujahari Dilip Singh Sisodia	Aggregation of preference relations to enhance the ranking quality of collaborative filtering based group recommender system	Expert Systems with Applications	Elsevier	2021	Volume 156 Pages 113476	SCIE (IF-4.292), Scopus
14.	Abinash Pujahari, Dilip Singh Sisodia	Pair-wise preference relation based probabilistic matrix factorization for collaborative filtering in recommender system	Knowledge-Based Systems	Elsevier	2020	Volume 196 Pages 105798	Indexed in SCIE (IF-5.101), Scopus
15.	D. Singh, D.S. Sisodia, P. Singh	A New Multi-Objective Evolutionary approach for the Performance Improvement of Learners using Ensemble Feature selection and Discretization Technique on Medical data	Journal of Current Medical Imaging Reviews	Bentham Science Publishers	2020	Vol. 16(4), pp. 355-370, 2020	Indexed in SCIE (IF 0.533), Scopus
16.	Arti Anuragi, Dilip Singh Sisodia.	Empirical Wavelet Transform based Automated Alcoholism Classification using EEG Signal Features	Journal of Biomedical Signal Processing and Control,	Elsevier	2020.	Volume 57 Pages 101777	(Indexed in SCIE (IF 2.943), Scopus)
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18.	Arti Anuragi ,Dilip Singh Sisodia, Rambilas Pachori.	Automated Alcoholism Detection using Fourier-Bessel Series Expansion Based Empirical Wavelet Transform	IEEE Sensors Journal,	IEEE	2020	Vol. 20 (9), pp. 4914-4924 2020.	(Indexed in SCIE (IF 3.076), Scopus).
19.	V Sihag, M Vardhan, P Singh	A survey of android application and malware hardening	Computer Science Review	Elsevier	2021	39, 100365	Scopus
20.	A Agrawal, S Tripathi, M Vardhan	Active learning approach using a modified least confidence sampling strategy for named entity recognition	Progress in Artificial Intelligence	Springer	2021	1-16	Scopus
21.	S Dwivedi, M Vardhan, S Tripathi	Building an efficient intrusion detection system using grasshopper optimization algorithm for anomaly detection	Cluster Computing	Springer	2021	1-20	SCIE

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23.	S Dwivedi, M Vardhan, S Tripathi	Distributed denial-of-service prediction on iot framework by learning techniques	Open Computer Science	Degruyter	2020	220-230	Scopus
24.	N Singh, T Kumar, M Vardhan	Blockchain-based e-cheque clearing framework with trust based consensus mechanism	Cluster Computing	Springer	2020	1-15	SCIE
25.	S Dwivedi, M Vardhan, S Tripathi	An effect of chaos grasshopper optimization algorithm for protection of network infrastructure	Computer Networks	Elsevier	2020	Vol. 176	SCIE
26.	AK Shukla, P Singh, M Vardhan	Gene selection for cancer types classification using novel hybrid metaheuristics approach	Swarm and Evolutionary Computation	Elsevier	2020	Vol. 54	Scopus
27.	S Dwivedi, M Vardhan, S Tripathi, AK Shukla	Implementation of adaptive scheme in evolutionary technique for anomaly-based intrusion detection	Evolutionary Intelligence	Springer Berlin Heidelberg	2020	103-117	Scopus
28.	S Dwivedi, M Vardhan, S Tripathi	Defense against distributed DoS attack detection by using intelligent evolutionary algorithm	International Journal of Computers and Applications	Taylor & Francis	2020	1-11	Scopus
29.	S Dwivedi, M Vardhan, S Tripathi	Incorporating evolutionary computation for securing wireless network against cyberthreats	The Journal of Supercomputing	Springer US	2020	1-38	SCIE
30.	M Kumar, V Mishra, A Shukla, M Singh, M Vardhan	A novel publicly delegable secure outsourcing algorithm for large-scale matrix multiplication	Journal of Intelligent & Fuzzy Systems	IOS Press	2020	1-11	SCI
31.	AK Shukla, P Singh, M Vardhan	An adaptive inertia weight teaching-learning-based optimization algorithm and its applications	Applied Mathematical Modelling	Elsevier	2020	Vol. 77, 309-326	Scopus
32.	Aakanksha Sharaff and Naresh Kumar Nagwani	ML-EC2: An Algorithm for Multi-Label Email Classification Using Clustering	International Journal of Web-Based Learning and Teaching Technologies (IJWLTT)	IGI	2020	15(2)	Scopus
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37.	Preeti Chandrakar, Sonam Sinha, Rifaqat Ali	Cloud-based authenticated protocol for healthcare monitoring system	Journal of Ambient Intelligence and Humanized Computing	Springer Berlin Heidelberg	2020	11, 3431-3447	SCI
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## Department of Electrical Engineering

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	A.Chappa, Lalit Sahu, Shubhrata Gupta, K K Gupta	Resilient Multilevel Inverter Topology with Improved Reliability'	IET Power Electronics.	IET	2021	-	SCI
2	Saswati Mishra, A.Yadav, Shubhrata Gupta	Intrinsic Time Decomposition based Fault Location Scheme for UPFC Compensated Transmission Line	International Transactions on Electrical Energy Systems.	Wiley	2020	Volume30, Issue11 November 2020 e12585	SCI
3	Vikrant Singh Thakur, Kavita Thakur, Shubhrata Gupta,	An Improved Symbol Reduction Technique Based Huffman Coder for Efficient Entropy Coding in the Transform Coders	IET Image Processing	IET	2020	-	SCI



4	P.D. Dewangan, V.P. Singh, S.L. Sinha	Improved Approximation for SISO and MIMO Continuous Interval Systems Ensuring Stability	Circuits, Systems, and Signal Processing	Springer Nature	2020	39:4705–4716	SCI
5	P.D. Dewangan, V.P. Singh, S.L. Sinha	Design of FOPID Controller for Higher Order Continuous Interval System Using Improved Approximation Ensuring Stability	SN Applied Science	Springer Nature	2021	Accepted , in press.	SCI
6	P.D. Dewangan, V.P. Singh, S.L. Sinha	Improved Approximation of SISO and MIMO Continuous Interval Systems	International Journal of System Control and Information Processing,	Inderscience	2021	Accepted , in press.	other
7	A. Semwal and N. D. Londhe	MVFNet: A Multi-view Fusion Network for Pain Intensity Assessment in Unconstrained Environment Biomedical Signal Processing and Control	Biomedical Signal Processing and Control	ELSEVIER	2021	-	SCI
8	Manoranjan Dash, Narendra Digambar Londhe, Subhojit Ghosh, Ritesh Raj and Rajendra Sonawane	Psoriasis Lesion Detection Using Hybrid Seeker Optimization Based Image Clustering	Current Medical Imaging	BENTHAM SCIENCE	2021	Volume 17 ,Issue 1	SCIE
9	Satya Prakash Sahu, Narendra D. Londhe, Shrish Verma, Priyanka Agrawal, Sumit K. Banchhor	False positives reduction in pulmonary nodule detection using a connected component analysis -based approach	Int. Journal of Biomedical Engineering and Technology	INDERSCIENCE Publisher	2021	-	Scopus
40	Anita Khanna, Narendra D. Londhe, S. Gupta	Automated pathological lung volume segmentation with anterior and posterior separation in X-ray CT images	Int. Journal of Biomedical Engineering and Technology	INDERSCIENCE Publisher	2021	-	Scopus
11	Sahu S.P., Kumar R., Londhe N.D., Verma S	Segmentation of Lungs in Thoracic CTs Using K-means Clustering and Morphological Operations	Advances in Biomedical Engineering and Technology	Springer, Singapore	2021	Pp 331-343	Scopus
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14	Tekchandani, Hitesh, Shrish Verma, and Narendra Londhe	Performance improvement of mediastinal lymph node severity detection using GAN and Inception network	Computer Methods and Programs in Biomedicine	ELSEVIER	2020	Volume 194	SCI
15	Khanna, Anita, Narendra D. Londhe, S. Gupta, and Ashish Semwal	A deep Residual U-Net convolutional neural network for automated lung segmentation in computed tomography images	Biocybernetics and Biomedical Engineering	ELSEVIER	2020	Volume 40, Issue 3 Pp 1314-1327	SCI
16	Dash, M., Londhe, N. D., Ghosh, S., Shrivastava, V. K., & Sonawane, R. S.	Swarm intelligence based clustering technique for automated lesion detection and diagnosis of psoriasis	Computational Biology and Chemistry	ELSEVIER	2020	Volume 86	SCI
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18	Tekchandani, H., Verma, S., & Londhe, N. D	Mediastinal lymph node malignancy detection in computed tomography images using fully convolutional network	Biocybernetics and Biomedical Engineering	ELSEVIER	2020	Volume 40(1), 187-199	SCI
19	Khanna A, Londhe N. D, Gupta S	Automated Localized Approach for Airway Segmentation in 3D Chest CT Volume	Biomed Pharmacology Journal	Oriental Scientific Publishing Company	2020	Volume 13(4)	Scopus
20	P. K. Jena, S. Ghosh and E. Koley	A Binary-Optimization-Based Coordinated Cyber-Physical Attack for Disrupting Electricity Market Operation	IEEE Systems Journal	IEEE	2020	DOI: 10.1109/JSYST.2020.3023859.	SCI
21	Murli Manohar, Ebha Koley, Subhojit Ghosh	Microgrid protection under weather uncertainty using joint probabilistic modeling of solar irradiance and wind speed	Computers and Electrical Engineering	Elsevier	2020	Volume 86, September 2020, 106684	SCI
22	Sunil K Shukla, Ebha Koley, Subhojit Ghosh	Grey wolf optimization-tuned convolutional neural network for transmission line protection with immunity against symmetrical and asymmetrical power swing	Neural Computing and Applications	Springer	2020	32, 17059–17076 (2020).	SCI

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24	S. Lavety, R. Keshri, S. Ghosh and M. A. Chaudhari	Non-Linear Model and Parameter Extraction for Charge/discharge Behavior of Valve Regulated Lead-Acid Battery	IEEE Transactions on Energy Conversion	IEEE	2021	doi: 10.1109/TEC.2021.3062087	SCI
25	N. Agrawal, S. Samanta and S. Ghosh	Modified LQR Technique for Fuel Cell Integrated Boost Converter	IEEE Transactions on Industrial Electronics	IEEE	2020	doi: 10.1109/TIE.2020.3000096	SCI
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27	A. Hema Chander, L. Kumar Sahu, S. Ghosh and K. K. Gupta	Comparative analysis on selection and synthesis of multiple input converters: a review	IET Power Electronics	IET	2020	vol. 13, no. 4, pp. 611-626, 18 3	SCI
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29	K. Dhananjay Rao, S. Ghosh, S. Das and M. R. Kumar	Transient Behavior Modeling-Based Hysteresis-Dependent Energy Estimation of Ultracapacitor	IEEE Transactions on Instrumentation and Measurement	IEEE	2020	vol. 69, no. 9, pp. 6455-6464, Sept. 2020	SCI
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34	V. Ashok, Anamika Yadav, M Pazoki, Ragab El Sehiemy	Optimized Ensemble of Regression Trees-Based Location of Evolving Faults in Dual-Circuit Line	Neural Computing and Applications	Springer	2021	-	SCI
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37	Anamika Yadav, V. Ashok, M Pazoki	Protection Scheme for Hybrid Transmission System Using Fuzzy Inference System and Microcontroller	Evolutionary Intelligence,	Springer	2020		ESCI and Scopus
38	B. K. Chaitanya, A Yadav, M Pazoki	Reliable Islanding Detection Scheme for Distributed Generation based on Pattern-Recognition	IEEE Transactions on Industrial Informatics	IEEE	2020.		SCI
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41	Saswati Mishra, S. Gupta, A. Yadav	Intrinsic Time Decomposition based Fault Location Scheme for Unified Power Flow Controller Compensated Transmission Line”,	International Transactions on Electrical Energy Systems,	Wiley	2020	30(11), e12585	SCI

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43	Som Ankar, Anamika Yadav,	A novel approach to estimate fault location in Current Source Converter based HVDC transmission line by Gaussian process regression	International Transactions on Electrical Energy Systems,	Wiley	2020	30(2),e12221, pp. 1-20.	SCI
44	B. K Chaitanya, Anamika Yadav	An intelligent faulty line identification scheme for micro-grids	Iranian Journal of Science and Technology-Transaction of Electrical Engineering	Springer	2020.	44(1), 537-549,	SCI
45	V. Sonti, S. Jain and B. S. K. R. Pothu	Leakage Current Minimization Using NPC DC Decoupling Method for Three-Phase Cascaded Multilevel PV Inverter	IEEE Transactions on Circuits and Systems II: Express Briefs	IEEE	2020	vol. 67, no. 12, pp. 3247-3251,	SCI
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51	R. Nale, H. Verma, M. Biswal	An enhanced fuzzy rule based protection scheme for TCSC compensated double circuit transmission system	International Journal of Modelling and Simulation	Taylor and Francis	2021	41, 120-130	Scopus
52	K. Venkatanagaraju, M. Biswal, K. K. Murty	Operations of Distance Relay Third Zone Protection During Power System Critical Conditions: A Case Study on Indian Eastern Regional Grid	Journal of the Institution of Engineers (India), Series-B	Springer	2021	1-9 (Early access)	Scopus
53	K. Venkatanagaraju, M. Biswal, R. C. Bansal	Adaptive distance relay algorithm to detect and discriminate third zone faults from system stressed conditions	International Journal of Electrical Power & Energy Systems	Elsevier	2021	125, 1-11	SCI-E
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56	S. Ghore, P. Das, M. Biswal	Uninterrupted power supply to BESS based microgrid system using adaptive reclosing approach	IET Generation, Transmission & Distribution	Wiley	2020	<a href="https://doi.org/10.1049/gtd.2.12096">https://doi.org/10.1049/gtd.2.12096</a>	SCI-E
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58	CD Prasad, M Biswal, AY Abdelaziz	Adaptive differential protection scheme for wind farm integrated power network	Electric Power Systems Research	Elsevier	2020	187, 106452	SCI-E

59	CD Prasad, M Biswal	Swarm intelligence-based differential protection scheme for wind integrated transmission system	Computers & Electrical Engineering	Elsevier	2020	86, 106709	SCI-E
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64	V. Singh, S. Gupta, S. Pattnaik	Modified GSA for minimisation of THD of voltage source multilevel inverter	International Journal of Power Electronics	Inderscience	2020	Vol.12 No.2, pp. 191 – 212	ESCI
65	Chiranjeevi S., S. Pattnaik, V. P. Singh	A Flying Capacitor Based Multilevel Inverter Architecture with Symmetrical and Asymmetrical Configurations	IEEE Journal of Emerging and Selected Topics in Power Electronics	IEEE	2020	Early Access	SCI
66	A. K. Singh, S. Pattnaik	Matrix Converter Operated Hysteresis Current Controlled BLDC Motor Drive for Efficient Speed Control and Improved Power Quality	Procedia Computer Science	Elsevier	2020	Vol. 167, pp. 541-550	ESCI
67	N. Patnana, S. Pattnaik, V. P. Singh	Salp swarm optimization based controller design for photovoltaic reverse osmosis plant	Journal of Information and Optimization Sciences	Taylor & Francis	2020	vol. 41 (2), pp. 651-659	ESCI
68	M. Dhananjaya, S. Pattnaik	Design and Analysis of Improved Single-Input Dual-Output DC–DC Converter	Electric Power Components	Taylor & Francis	2020	Volume 48 Issue 9-10	ESCI

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70	N. Patnana, S. Pattnaik, V. P. Singh	Self-learning salp swarm optimisation-based controller design for photovoltaic reverse osmosis plant	International Journal of Modelling, Identification and Control	Inderscience	2021	Accepted	ESCI
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73	P. T. Bankupalli, S. Ghosh, Lalit Kumar Sahu, S. Samanta and S. Jain	Operational Adaptability of PEM Fuel Cell for Optimal Voltage Regulation With Maximum Power Extraction	IEEE Transactions on Energy Conversion	IEEE	2020	35, 203-212	SCI
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75	A. Chappa, S. Gupta, Lalit Kumar Sahu, S. P. Gautam and K. K. Gupta	Symmetrical and Asymmetrical Reduced Device Multilevel Inverter Topology	IEEE Journal of Emerging and Selected Topics in Power Electronics	IEEE	2021	9, 885-896	SCI
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78	A. Hema Chander, Lalit Kumar Sahu, S. Ghosh and K. K. Gupta	Comparative analysis on selection and synthesis of multiple input converters: a review	IET Power Electronics	IET	2020	13, 611-626	SCI
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84	Kaushal Pratap Sengar and K Chandrasekaran	Estimation of horizontal multilayer soil parameters using Newton interpolation polynomial and h-DETLBO method	Electrical Engineering	Springer	2020	Vol. 102, pp. 2083– 2094, 2020.	SCI
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## Department of Electronics & Communication

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/Scopus/Others)
1	Girija Shankar Sahoo, Guru Prasad Mishra	Design and modelling of InGaP/GaSb tandem cell with embedded 1D GaAs quantum superlattice	IET Circuits, Devices & Systems	IET	2020	14, 471–476	SCI
2	Girija Shankar Sahoo, Guru Prasad Mishra	Preservation of open circuit voltage in a quantum dot solar cell using GaSb quantum confined superlattice	Optik	Elsevier	2020	212, 164678-1-8	SCI
3	Sidhartha Dash, Guru Prasad Mishra	An analytical model of the surface-potential-based source-pocket-doped cylindrical-gate tunnel FET with a work-function-modulated metal gate	Journal of Computational Electronics	Springer	2020	19, 591–602	SCI
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5	Mahesh Vaidya, Alok Naugarhiya, Shrish Verma, Guru Prasad Mishra	Lateral Variation-Doped Insulated Gate Bipolar Transistor for Low On-State Voltage with Low Loss	IEEE Electron Device Letters	IEEE	2020	41, 888-891	SCI
6	Sasmita Sahoo, Sidhartha Dash, Soumya Ranjan Routray, Guru Prasad Mishra	Impact of drain doping engineering on ambipolar and high-frequency performance of ZHP line-TFET	Semiconductor Science and Technology	IOP	2020	35, 65003-1-9	SCI
7	Manish Verma, Guru Prasad Mishra	Voltage preserved GaInP Single junction Solar Cell using type-A InP multiple quantum well structure with Enhanced Efficiency	Optik	Elsevier	2020	220, 165113-1-8	SCI
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11	Soumya S Mohanty, Urmila Bhanja, Guru P Mishra	An Extensive Simulation Study of Gate Underlap Influence on Device Performance of Surrounding Gate In <sub>0.53</sub> Ga <sub>0.47</sub> As/InP Hetero Field Effect Transistor	Nanoscience & Nanotechnology-Asia	Bentham Science	2020	10, 157-165	Scopus
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13	Pradeep Singh, Shrish Verma	ACO based comprehensive model for software fault prediction	International Journal of Knowledge-based and Intelligent Engineering Systems	IOS Press	2020	24, 63-71	Scopus
14	Mridu Sahu, Shrish Verma, Naresh Kumar Nagwani, Sneha Shukla	EEG signal analysis and classification on P300 speller-based BCI performance in ALS patients	International Journal of Medical Engineering and Informatics	Inderscience Publishers (IEL)	2020	12, 375-400	Scopus
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17	Praveen Kumar Shukla, Rahul Kumar Chaurasiya, Shrish Verma	Single-Channel Region-Based Speller for Controlling Home Appliances	International Journal of E-Health and Medical Communications (IJEHMC)	IGI Global	2020	11, 65-89	Scopus
18	P Shukla, R Chaurasiya, S Verma	Brain-computer interface-based single trial P300 detection for home environment application	Electronics Letters	IET Digital Library	2020	56, 1392-1395	SCI
19	Mahesh Vaidya, Alok Naugarhiya, Shrish Verma	Lateral variation doped wide bottom trench gate IGBT for reduced on-resistance with improved gate charge	Materials Today: Proceedings	Elsevier	2020		Scopus
20	Payal Nautiyal, Alok Naugarhiya, Shrish Verma	Performance evaluation of superjunction UMOS with dual polysilicon gate	Materials Today: Proceedings	Elsevier	2020		Scopus
21	L Janjanam, S K Saha, R Kar, D Mandal	Volterra filter modelling of non-linear system using Artificial Electric Field algorithm assisted Kalman filter and its experimental evaluation	ISA Transactions, Elsevier	ISA Transactions, Elsevier	2020		SCI
22	C Nayak, SK Saha, R Kar, D Mandal	Optimal Design of Zero-Phase Digital Riesz FIR Fractional Order Differentiator	Soft Computing	Springer	2020		SCI
23	Subhadra Panda, Anshul Gupta, and Bibhudendra Acharya	Wearable microstrip patch antennas with different flexible substrates for health monitoring system	Materials Today: Proceedings	Elsevier	2020		Scopus
24	Zeesha Mishra, Pallab Kumar Nath, and Bibhudendra Acharya.	High throughput unified architecture of LEA algorithm for image encryption	Microprocessors and Microsystems	Elsevier	2020	78, pp. 103214	SCI
25	AmitVerma, Toshanlal Meenpal, and Bibhudendra Acharya.	Human Interaction Recognition in Videos with Body Pose Traversal Analysis and Pairwise Interaction Framework	IETE Journal of Research	Taylor & Francis	2020	pp. 1-13	SCI

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27	K. Abhimanyu Kumar Patro, Ayushi Soni, Pradeep Kumar Netam, and Bibhudendra Acharya.	Multiple grayscale image encryption using cross-coupled chaotic maps	Journal of Information Security and Applications	Elsevier	2020	52, pp. 102470.	SCI
28	K. Abhimanyu Kumar Patro, Bibhudendra Acharya, and Vijay Nath	Secure, lossless, and noise-resistive image encryption using chaos, hyper-chaos, and DNA sequence operation	IETE Technical Review	Taylor & Francis		37, pp. 223-245	SCI
29	K. Abhimanyu Kumar Patro, and Bibhudendra Acharya.	A novel multi-dimensional multiple image encryption technique	Multimedia Tools and Applications	Springer	2020	19, pp. 12959-12994	SCI
30	Pulkit Singh, Bibhudendra Acharya, and Rahul Kumar Chaurasiya.	A comparative survey on lightweight block ciphers for resource constrained applications	International Journal of High Performance Systems Architecture	Inderscience	2020	8, pp. 250-270	Scopus
31	Anju Gedam, Bibhudendra Acharya, and Guru Prasad Mishra	Junctionless silicon nanotube TFET for improved DC and radio frequency performance	Silicon	Springer	2020	pp. 1-12	SCI
32	Rahul Priyadarshi, Piyush Rawat, Vijay Nath, Bibhudendra Acharya, and N. Shylashree.	Three level heterogeneous clustering protocol for wireless sensor network	Microsystem Technologies	Springer	2020	pp. 1-10	SCI
33	Nivedita Shrivastava, Pulkit Singh, and Bibhudendra Acharya.	Efficient hardware implementations of QTL cipher for RFID applications	International Journal of High Performance Systems Architecture	Inderscience	2020	9, pp. 1-10	Scopus

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35	Aarti Goyal, and Toshanal Meenpal	Patch-Based Dual-Tree Complex Wavelet Transform for Kinship Recognition	IEEE Transactions on Image Processing	IEEE	2020	191-206.	SCI (Transaction)
36	Aarti Goyal, and Toshanal Meenpal	Eccentricity based kinship verification from facial images in the wild	Pattern Analysis and Applications	Springer	2020	1-26.	SCI
37	Amit Verma, Toshanal Meenpal	Multiperson interaction recognition in images: A body keypoint based feature image analysis	Computational Intelligence (2020).	Wiley	2020		SCI
38	S Singh, S Singh, A Naugarhiya	Optimization of Si-doped Hf ferroelectric material-based negative capacitance junctionless TFET: Impact of temperature on RF/linearity performance	International Journal of Modern Physics B	World scientific	2020	34 (27), 2050242	SCI
39	H Kumar, S Singh, KN Priyadarshani, J Ghosh, A Naugarhiya	Contact engineered charge plasma junctionless transistor for suppressing tunneling leakage	International Journal of Numerical Modelling: Electronic Networks, Devices	John Wiley & Sons, Inc.	2020	34, e2812	SCI
40	N Gupta, S Singh, A Naugarhiya	An insulated gate bipolar transistor with three-layer poly gate for improved figure of merit	Journal of Materials Science: Materials in Electronics	Springer	2020	31 (18), 15513-15521	SCI
41	V Butram, A Mishra, A Naugarhiya	A Lead-Free Spiral Bimorph Piezoelectric MEMS Energy Harvester for Enhanced Power Density	IETE Technical Review	Taylor & Francis Online	2020	44206	SCI

42	A Raj, S Singh, KN Priyadarshani, R Arya, A Naugarhiya	Vertically Extended Drain Double Gate Si 1-x Ge Source Tunnel FET: Proposal & Investigation For Optimized Device Performance	Silicon,	Springer Netherlands	2020	44212	SCI
43	S Agarwal, S Singh, BC Sahana, A Naugarhiya	Gaussian Doped Planar 4H-SiC Junctionless Field Effect Transistor For Enhanced Gate Controllability	Silicon	Springer Netherlands	2020	44206	SCI
44	N Gupta, A Naugarhiya	1.4 kV Planar Gate Superjunction IGBT with Stepped Doping Profile in Drift and Collector Region	Silicon	Springer Netherlands	2020	44206	SCI
45	O Parmar, P Baghel, A Naugarhiya	Novel strained superjunction vertical single diffused MOSFET	AEU-International Journal of Electronics and Communications	Elsevier	2020	113, 152929	SCI
46	Anju Gedam, Bibhudendra Acharya, Guru Prasad Mishra	Junctionless Silicon Nanotube TFET for Improved DC and Radio Frequency Performance	Silicon	Springer	2021	13, 167–178	SCI
47	Girija Shankar Sahoo, Guru Prasad Mishra	Use of hetero intrinsic layer in GaAs PIN solar cell to improve the intermediate band performance	Materials Science and Engineering: B	Elsevier	2021	263, 114862	SCI
48	Praveen Kumar Shukla, Rahul Kumar Chaurasiya, Shrish Verma	Performance improvement of P300-based home appliances control classification using convolution neural network	Biomedical Signal Processing and Control	Elsevier	2021	63, 102220	SCI
49	M K Giri, S Majumder	Eigenvalue-based cooperative spectrum sensing using kernel fuzzy c-means clustering	Digital Signal Processing	Elsevier	2021	111	SCI
50	KN Priyadarshani, S Singh, A Naugarhiya	RF & Linearity Distortion Sensitivity Analysis of DMG-DG-Ge pocket TFET with Hetero Dielectric	Microelectronics Journal	Elesvier	2021	104973	SCI



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52	Kumari Nibha Priyadarshani, Sangeeta Singh, Alok Naugarhiya	Dual Metal Double Gate Ge-Pocket TFET (DMG-DG-Ge-Pocket TFET) with Hetero Dielectric: DC & Analog Performance Projections	Silicon	Springer Netherlands	2021	44208	SCI

## Department of Information Technology

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	R Dubey, PK Mishra, S Pandey	Mixed Uplink, Downlink Channel Allocation and Power Allocation Schemes for 5G Networks	Wireless Personal Communications	Springer	2020	112 2253–2274	SCI
2	Deepika Agrawal Sudhakar Pandey	GWO-C: Grey wolf optimizer-based clustering scheme for WSNs	International Journal of Communication system	Elsevier	2020	Volume 33, Issue 8	Scopus
3	Sudhakar Pandey Veena Anand	New approach of GA-PSO-based clustering and routing in wireless sensor networks	International Journal of Communication Systems	Elsevier	2020	Volume 33, Issue 16	Scopus
4	Deepika Agrawal Sudhakar Pandey	Optimization of cluster heads through harmony search algorithm in wireless sensor networks	Journal of Intelligent and Fuzzy Systems	IOS Press	2020	vol. 39, no. 6, pp. 8587-8597	Scopus
5	Sudhakar Pandey	Optimization of the selection of cluster-head using fuzzy logic and harmony search in wireless sensor networks	International Journal of Communication Systems	Wiley	2020		Scopus
6	Sudhakar Pandey	Load balanced fuzzy-based unequal clustering for Wireless Sensor Networks	Engineering Reports	Wiley	2020	Volume-2,	Scopus

		Assisted Internet of Things				Issue 3	
7	Deepak Kumar Dewangan, Satya Prakash Sahu	RCNet: road classification convolutional neural networks for intelligent vehicle system	Intelligent Service Robotics	Springer	2021	(In Press) <a href="https://doi.org/10.1007/s11370-020-00343-6">https://doi.org/10.1007/s11370-020-00343-6</a> pp. 1-16	SCIE
8	Deepak Kumar Dewangan, Satya Prakash Sahu	Driving Behaviour Analysis of Intelligent Vehicle System for Lane Detection using Vision-Sensor	IEEE Sensors Journal	IEEE	2021	21(5), pp . 6367–6375	SCIE
9	Deepak Kumar Dewangan, Satya Prakash Sahu	Deep Learning-Based Speed Bump Detection Model for Intelligent Vehicle System Using Raspberry Pi	IEEE Sensors Journal	IEEE	2021	21(3), pp . 3570–3578	SCIE
10	Lokesh Singh, Rekh Ram Janghel, Satya Prakash Sahu	TrCSVM: a novel approach for the classification of melanoma skin cancer using transfer learning	Data Technologies and Applications	Emerald Publishing Limited	2020	55(1), pp . 64–81	SCIE
11	Deepak Kumar Dewangan, Satya Prakash Sahu	PotNet: Pothole detection for autonomous vehicle system using convolutional neural network	Electronics Letters	John Wiley & Sons, Inc.	2020	57(2), pp. 53-56	SCIE
12	Satya Prakash Sahu, Narendra D. Londhe, Shrish Verma, Bikesh K. Singh, Sumit Kumar Banchhor	Improved pulmonary lung nodules risk stratification in computed tomography images by fusing shape and texture features in a machine-learning paradigm	International Journal of Imaging Systems and Technology	John Wiley & Sons, Inc.	2020	<a href="https://doi.org/10.1002/ima.22539">https://doi.org/10.1002/ima.22539</a> pp. 1-16	SCIE
13	Kumar, R., & Tripathi, R. (2020).	Scalable and secure access control policy for healthcare system using blockchain and enhanced Bell-LaPadula model.	Journal of Ambient Intelligence and Humanized Computing,	Springer	2020	1-18	SCI
14	Kumar, P., Gupta, G. P., and Tripathi, R.	TP2SF: A Trustworthy Privacy-Preserving Secured Framework for sustainable smart	Journal of Systems Architecture,	Springer	2020.	101954	SCI

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15	Kumar, P., Gupta, G. P., and Tripathi, R.	A Distributed framework for detecting DDoS attacks in smart contract-based Blockchain-IoT Systems by leveraging Fog computing	Transactions on Emerging Telecommunications Technologies	Wiley	2020	(2020): e4112.	SCI
16	Kumar, Prabhat, Govind P. Gupta, and Rakesh Tripathi.	A distributed ensemble design based intrusion detection system using fog computing to protect the internet of things networks	Journal of Ambient Intelligence and Humanized Computing	Springer	(2020):	1-18.	SCI
17	Kumar, Randhir, Prabhat Kumar, Rakesh Tripathi, Govind P. Gupta, Thippa Reddy Gadekallu, and Gautam Srivastava	SP2F: A secured privacy-preserving framework for smart agricultural Unmanned Aerial Vehicles	Computer Networks	Elsevier	2021	187: 107819.	SCI
18	Kumar, Prabhat, Govind P. Gupta, and Rakesh Tripathi	An ensemble learning and fog-cloud architecture-driven cyber-attack detection framework for IoMT networks	Computer Communications	Elsevier	2021	166: 110-124	SCI
19	Kumar, R., & Tripathi, R.	Data provenance and access control rules for ownership Transfer using Blockchain	International Journal of Information Security and Privacy	IGI Global	2020		Scopus
20	Kumar, Randhir, and Rakesh Tripathi	Towards design and implementation of security and privacy framework for Internet of Medical Things (IoMT) by leveraging blockchain and IPFS technology	The Journal of Supercomputing	Springer	2021	1-40	SCI
21	Sanjay Kumar, Ghadle, S., Tripathi, R.,	Analysis of gene expression dataset of genetic disease analysis of autism spectrum disorder using machine learning and geo2r tool	International Journal of Advanced Science and Technology	Science and Engineering Research Support Society	2020	Volume 29, Issue 5, Pages 302-307	Special Issue
22	Abhilasha Chaudhuri and Tirath Prasad Sahu	Feature selection using Binary Crow Search Algorithm with time varying flight length	Expert Systems with Applications	Elsevier	2021	168, 1-16	SCI

23	Abhilasha Chaudhuri and Tirath Prasad Sahu	A hybrid feature selection method based on Binary Jaya algorithm for micro-array data classification	Computers & Electrical Engineering	Elsevier	2021	90, 1-12	SCI
24	Sudepa Das, Tirath Prasad Sahu, and Rekh Ram Janghel.	PSO-based group-oriented crow search algorithm (PGCSA)	Engineering Computations	Emerald Publishing Limited	2020	38, 545-571	SCI
25	Abhilasha Chaudhuri and Tirath Prasad Sahu	PROMETHEE-based hybrid feature selection technique for high-dimensional biomedical data: application to Parkinson's disease classification	Electronics Letters	IET	2020	56, 1403-1406	SCI
26	Sahu, Tirath Prasad, and Sarang Khandekar	A Machine Learning-Based Lexicon Approach for Sentiment Analysis	International Journal of Technology and Human Interaction	IGI Global	2020	16, 8-22	ESCI, Scopus
27	Mridu Sahu, Tushar Jani, Maski Saijahnvi, Amrit Kumar, Upendra Chaurasiya, Samrudhi Mohdiwale	Classification of Rusty and Non-Rusty Images: A Machine Learning Approach	International Journal of Natural Computing Research (IJNCR)	IGI	2020	9(4), 1-17	ACM indexed
28	Samrudhi Mohdiwale, Mridu Sahu, G. R. Sinha, Vikrant Bhateja.	Statistical Wavelets with Harmony Search based Optimal Feature Selection of EEG Signals for Motor Imagery Classification	IEEE Sensor	IEEE	2020	1-8	SCI indexed
29	Samrudhi Mohdiwale , Mridu Sahu, G. R. Sinha, Varun Bajaj	Automated Cognitive Workload Assessment Using Logical Teaching Learning-Based Optimization and PROMETHEE Multi-Criteria Decision Making Approach	IEEE Sensor	IEEE	2020	Volume 20 (20) 1-8	SCI indexed
30	LJaya	optimisation-based channel selection approach for performance improvement of cognitive workload assessment technique	ELECTRONICS LETTERS IET Journals	IET Journals	2020	Vol. 56 No. 15 , pp. 793–795	SCIE Indexed
31	R Dubey, PK Mishra, S Pandey	Mixed Uplink, Downlink Channel Allocation and Power Allocation Schemes for 5G Networks	Wireless Personal Communications	Springer	2020	112 2253–2274	SCI
32	S Kumari, PK Mishra, V Anand	Integrated Load Balancing and Void Healing Routing with Cuckoo Search Optimization Scheme for Underwater Wireless Sensor Networks	Wireless Personal Communications	Springer	2020	111, pages 1787–1803	SCI

33	S Kumari, PK Mishra, V Anand	Fault resilient routing based on moth flame optimization scheme for underwater wireless sensor networks	Wireless Networks	Springer	2020	26, pages 1417–1431	SCI
34	Kaushlendra Sharma, Rajesh Doriya	Coordination of Multi-Robot Path Planning for Warehouse Application using Smart Approach for Identifying Destinations	Intelligent Service Robotics	Springer	2021		SCIE
35	Kaushlendra Sharma, Shikha Singh, Rajesh Doriya	Optimized Cuckoo Search Algorithm using Tournament Selection Function for Robot Path Planning	International Journal of Advanced Robotic Systems	SAGE Publications Inc	2021		SCIE
36	Saurabh Jain C. Nandhini, Rajesh Doriya	ECC-Based Authentication Scheme for Cloud-Based Robots	Wireless Personal Communications	Springer	2020		SCIE
37	Kaushlendra Sharma and Rajesh Doriya	Path planning for robots: an elucidating draft	International Journal of Intelligent Robotics and Applications		2020	Vol. 4, No. 3, Pg. No. 294-307	ESCI, Scopus
38	Pandey, S.K., Janghel, R.R.	Automated detection of arrhythmia from electrocardiogram signal based on new convolutional encoded features with bidirectional long short-term memory network classifier	Physical and Engineering Sciences in Medicine	Springer	2021	Published: 06 January 2021	SCI
39	Sudeepa Das, Tirath Prasad Sahu, Rekh Ram Janghel	PSO-based group-oriented crow search algorithm (PGCSA)	Engineering Computations	EMERALD GROUP PUBLISHING LTD	2020	Vol. 38 No. 2, pp. 545-571	SCI
40	Lokesh Singh, Rekh Ram Janghel, Satya Prakash Sahu	TrCSVM: a novel approach for the classification of melanoma skin cancer using transfer learning	Data Technologies and Applications	Emerald Group Publishing Ltd	2020	Vol. 55 No. 1, pp. 64-81	SCI
41	Saroj Kumar Pandey, Rekh Ram Janghel,	“Classification of electrocardiogram signal using an ensemble of deep learning models	Signal, Image and Video Processing	Springer	2020	14 (6), 1255-1263	SCI
42	Yogesh Kumar Rathore, Rekh Ram Janghel	Deep Convolution Neural Network Based System for Early Diagnosis of Alzheimer's Disease	IRBM	Elsevier Masson	2020.	In Press,	SCI

43	Rekh Ram Janghel , Saroj Kumar Pandey	Classification of electrocardiogram signal using an ensemble of deep learning models	Journal Data Technologies and Applications	Emerald Group Publishing Ltd, England,	2021	Publication date 27-Jan-2021	SCI
44	Mangesh Ramaji Kose, M. K. Ahirwal and R. R. Janghel	Principal and independent component-based analysis to enhance adaptive noise canceller for electrocardiogram signals	International Journal of Biomedical Engineering and Technology (IJBET)	Inderscience Publishers Ltd	In Press	-	SCI
45	Prabhat Kumar, Govind P. Gupta, Rakesh Tripathi	An ensemble learning and fog-cloud architecture-driven cyber-attack detection framework for IoMT networks	Computer Communications,  ISSN 0140-3664	Elsevier	2021	Vol. 166, Pages 110-124	SCI
46	Prabhat Kumar, Govind P. Gupta, Rakesh Tripathi	Design of Anomaly-based Intrusion Detection System using Fog Computing for IoT Network	Automatic Control and Computer Sciences	Springer	2021	In press	Scopus
47	Vrajesh Kumar Chawra, Govind P. Gupta	Hybrid meta-heuristic techniques based efficient charging scheduling scheme for multiple Mobile wireless chargers based wireless rechargeable sensor networks	Peer-to-Peer Networking and Applications	Springer	2021	In-press  <a href="https://doi.org/10.1007/s12083-020-01052-8">https://doi.org/10.1007/s12083-020-01052-8</a>	SCI
48	Prabhat Kumar, Govind P. Gupta, Rakesh Tripathi	Toward Design of an Intelligent Cyber Attack Detection System using Hybrid Feature Reduced Approach for IoT Networks	Arabian Journal of Science & Engineering	Springer	2021	In press  <a href="https://doi.org/10.1007/s13369-020-05181-3">https://doi.org/10.1007/s13369-020-05181-3</a>	SCI
49	Randhir Kumar, Prabhat Kumar, Rakesh Tripathi, Govind P. Gupta, T. R. Gadekallu, G. Srivastava	SP2F: A secured privacy-preserving framework for smart agricultural Unmanned Aerial Vehicles	Computer Networks	Elsevier	2021	Vol. 187, ISSN 1389-1286	SCI
50	Prabhat Kumar, Govind P. Gupta,	TP2SF: A Trustworthy Privacy-Preserving Secured Framework for sustainable smart	Journal of Systems	Elsevier	2020	In press  <a href="https://doi.org/">https://doi.org/</a>	SCI

	Rakesh Tripathi	cities by leveraging blockchain and machine learning	Architecture			i.org/10.1016/j.sycsar.2020.101954	
51	Prabhat Kumar, Govind P. Gupta, Rakesh Tripathi	A distributed ensemble design-based intrusion detection system using fog computing to protect the internet of things networks	Journal of Ambient Intelligence and Humanized Computing	Springer	2020	In press <a href="https://doi.org/10.1007/s12652-020-02696-3">https://doi.org/10.1007/s12652-020-02696-3</a>	SCI
52	Prabhat Kumar, Randhir Kumar, Govind P. Gupta, Rakesh Tripathi	A Distributed framework for detecting DDoS attacks in smart contract-based Blockchain-IoT Systems by leveraging Fog computing	Transaction on Emerging Telecommunications Technologies	Wiley	2020	In press <a href="https://doi.org/10.1002/ett.4112">https://doi.org/10.1002/ett.4112</a>	SCI
53	Govind P. Gupta, B. Saha	Load balanced clustering scheme using hybrid metaheuristic technique for mobile sink based wireless sensor networks	Journal of Ambient Intelligence and Humanized Computing	Springer	2020	In press <a href="https://doi.org/10.1007/s12652-020-01909-z">https://doi.org/10.1007/s12652-020-01909-z</a>	SCI
54	Amanpreet Kaur, Padam Kumar, Govind P. Gupta	Improving DV-Hop-Based Localization Algorithms in Wireless Sensor Networks by Considering Only Closest Anchors	International Journal of Information Security and Privacy (IJISP)	IGI Global		Vol. 14(1), pp. 1-15,	Scopus

## Department of Mathematics

S.No.	Authors	Paper title	Journal name	Publisher	Year	Volume Page No.	Indexing (SCI/Scopus/Others)
1	A. K. Sinha, N. Namdev and A. Kumar	A mathematical model of adiponectin resistance	Journal of Theoretical Biology	ELSEVIER	2020	Vol. 494, 01-19	SCI
2	A. K. Sinha and N. Namdev	Feature selection and pattern recognition for different types of skin disease in human body using the rough set method	Network Modeling Analysis in Health Informatics and Bioinformatics	Springer	2020	Vol. 09, 1-11	SCI
3	A. K. Sinha and Srikumar Panda	Three-dimensional natural transform and its applications	IOP Materials Science and Engineering	IOP	2020	Vol. 798, 01-07	Scopus
4	A. K. Sinha and N. Namdev	Computational approach of tumor growth in human body with a significant technique the rough set	IOP Materials Science and Engineering	IOP	2020	Vol. 798, 01-09	Scopus
5	A. K. Sinha and Pradeep Shende	An efficient way of material classification using uncertainty assessment	IOP Materials Science and Engineering	IOP	2020	Vol. 798, 01-08	Scopus
6	A. K. Sinha and Radhakrushna Sahoo	Second-formulation adaptive wavelet optimization technique applicable in material sciences	IOP Materials Science and Engineering	IOP	2020	Vol. 798, 01-09	Scopus
7	V. Shekhar , N. Mishra, Debasisha Mishra	On convergence theory of double K-weak splittings of type II	Applications of Mathematics	Springer	2021		SCI
8	A. K. Nandi, V. Shekhar , N. Mishra, Debasisha	Alternating stationary iterative methods based on double splittings	Computers and Mathematics with	Elsevier	2021		SCI



	Mishra		Applications				
9	V. Shekhar, C. K. Giri, Debasisha Mishra	On convergence of two-stage iterative scheme	The Journal of Analysis	Springer	2021	1-20	Others
10	V. Shekhar, C.K. Giri, Debasisha Mishra	Convergence theory of iterative methods based on proper splittings and proper multisplittings for rectangular linear systems	Filomat	University of Niš, Serbia	2020	34, 1835-1851	SCI
11	A. K. Nandi, J. K. Sahoo, Debasisha Mishra	Three-step alternating iterations for index 1 and non-singular matrices	Numerical Algorithms	Springer	2020	84, 457-483	SCI
12	K. Panigrahy, Debasisha Mishra	Extension of Moore–Penrose inverse of tensor via Einstein product	Linear and Multilinear Algebra	Taylor & Francis	2020	1-24	Scopus
13	S.Sahoo, N. Das, Debasisha Mishra	Berezin number and numerical radius inequalities for operators on Hilbert spaces	Advances in Operator Theory	Birkhäuser	2020	5, 714-727	ESCI
14	V. Shekhar, C.K. Giri, Debasisha Mishra	A note on double weak splittings of type II	Linear and Multilinear Algebra	Taylor & Francis	2020	1-21	SCI
15	N. C. Rout, S. Sahoo, Debasisha Mishra	On A numerical radius inequalities for $2 \times 2$ operator matrices	Linear and Multilinear Algebra	Taylor & Francis	2020	1-21	SCI
16	K Panigrahy, Debasisha Mishra	On reverse-order law of tensors and its application to additive results on Moore–Penrose inverse	Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas	Springer	2020	114, 1-21	SCI
17	K Panigrahy, Debasisha Mishra	Reverse-order law for weighted Moore–Penrose inverse of tensors	Advances in Operator Theory	Birkhäuser	2020	5, 39-63	SCI
18	K. Panigrahy, R. Behera, Debasisha Mishra	Reverse order law for the Moore-Penrose inverses of tensors	Linear and Multilinear Algebra	Taylor & Francis	2020	68, 246-264	SCI
19	N.C.Rout, S. Sahoo, Debasisha Mishra	Some A-numerical radius inequalities for semi-Hilbertian space operators	Linear and Multilinear Algebra	Taylor & Francis	2020	1-17	SCI

20	Sujit Kumar Samanta, Kousik Das	Computing stationary distributions of the D-MAP/D-MSP(a,b)/1 queueing system	Journal of Ambient Intelligence and Humanized Computing	Springer	2021	Accepted (In Press)	SCI
21	S.K. Samanta, R. Nandi	Analysis of $GI^{[X]}/D-MSP/1/\infty$ queue using RG-factorization.	Journal of Industrial & Management Optimization	American Institute of Mathematical Sciences	2021	17(2), 549-573	SCI
22	Bivas Bank, Sujit Kumar Samanta	Performance analysis of a versatile correlated batch arrival and batch service queue. Queueing Models and Service Management	Queueing Models and Service Management	Kaoyian Press	2021	4(1), 1-30.	Scopus
23	Kousik Das, Sujit Kumar Samanta	Modelling and analysis of D-BMAP/D-MSP/1 queue using RG-factorization	Quality Technology & Quantitative Management	Taylor & Francis	2020	Accepted (In Press)	SCI
24	S.K. Samanta, R. Nandi	Queue-length, waiting-time and service batch size analysis for the discrete-time $GI/D-MSP^{(a,b)}/1/\infty$ queueing system	Methodology and Computing in Applied Probability	Springer	2020	Accepted (In Press)	SCI
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26	R. Nandi, S.K. Samanta, C. Kim	Analysis of D-BMAP/G/1 queueing system under N-policy and its cost optimization	Journal of Industrial & Management Optimization	American Institute of Mathematical Sciences	2020	Accepted (In Press)	SCI
27	S.K. Samanta, B. Bank	Analysis of stationary queue-length distributions of the BMAP/R <sup>(a,b)</sup> /1 queue	International Journal of Computer Mathematics : Computer Systems Theory	Taylor & Francis	2020	5(3) 198-223	Scopus
28	B. Bank, S.K. Samanta	Analytical and computational studies of the BMAP/G <sup>(a,Y)</sup> /1 queue	Communications in Statistics -	Taylor & Francis	2020	Accepted (In Press)	SCI

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29	R. Nandi, S.K. Samanta	Stationary analysis of an infinite-buffer D-MAP/D-MSP/1 queueing system	American Journal of Mathematical and Management Sciences	Taylor & Francis	2020	39(4), 362-382	Scopus
30	S.K. Samanta, R. Nandi	Performance analysis of the GI/D-MSP/1 queue with N-policy and its optimal control	Quality Technology & Quantitative Management	Taylor & Francis	2020	17 (4), 399-422	SCI
31	S.K. Samanta	Waiting-time analysis of D-BMAP/G/1 queueing system.	Annals of Operations Research	Springer	2020	284 (1) 401-413	SCI
32	Asha G. R., G. Subrahmanyam, S. K. Samanta	Energy saving in wireless sensor network using nodes sleep/active strategy based on Bernoulli's probability distribution	TEST Engineering & Management	The Mattingley Publishing Co., Inc.	2020	83, 12756 – 12768	Scopus
33	B. Tiwari and S. N. Raw	Dynamics of Leslie–Gower model with double Allee effect on prey and mutual interference among predators	Nonlinear Dynamics	Springer	2021	103, 1229–1257	SCI
34	P. Mishra, S. N. Raw and B. Tiwari	On a cannibalistic predator–prey model with prey defense and diffusion	Applied Mathematical Modelling	Elsevier	2021	90, 165-190	SCI
35	B. Tiwari, S. N. Raw and P. Mishra	Qualitative analysis of a spatiotemporal prey–predator model with multiple Allee effect and schooling behaviour	Nonlinear Dynamics	Springer	2020	102, 3013-3038	SCI
36	S. N. Raw, B. Tiwari and P. Mishra	Mathematical study about a predator-prey model with anti-predator behaviour	International Journal of Applied and Computational Mathematics	Springer	2020	6, 68.	SCImago & Scopus
37	J. K. Bokam, S. N. Raw and V. P. Singh	An improved method for reduction of continuous interval systems using Anderson corollary	Journal of Statistics and Management Systems	Taylor & Francis	2020	23, 453-461	ESCI
38	S. N. Raw, B. Tiwari and P. Mishra	Dynamical complexities and pattern formation in an eco-epidemiological model with infection and harvesting	Journal of Applied Mathematics and	Springer	2020	64, 17-52	SCIE

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39	M. Krishna Prasad, B. Tina	Magnetohydrodynamic creeping flow around a weakly permeable spherical particle in cell models	Pramana	Springer	2020	94(1), 1-10	SCI
40	M. Krishna Prasad, B. Tina	Influence of MHD on micropolar fluid flow past a sphere implanted in porous media	Indian Journal of Physics	Springer	2020	1-9	SCIE
41	M. Krishna Prasad, B. Tina	MHD viscous flow past a weakly permeable cylinder using Happel and Kuwabara cell models	Iranian Journal of Science and Technology, Transactions A: Science	Springer	2020	44, 1063-1073	SCIE
42	M. Krishna Prasad	Slip flow of a sphere in non-concentric spherical hypothetical cell	Journal of Applied Mathematics and Computational Mechanics	Czestochowa University of Technology	2020	19(3), 59-70	ESCI
43	M. Krishna Prasad, B. Tina	Flow past composite cylindrical shell of porous layer with a liquid core: magnetic effect	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Springer	2020	42	SCIE
44	M. Krishna Prasad, B. Tina	Effect of magnetic field on the slow motion of a porous spheroid: Brinkman's model	Archive of Applied Mechanics	Springer	2021		SCI
45	M. Krishna Prasad	Boundary effects of a nonconcentric semipermeable sphere using Happel and Kuwabara cell models	Applied and Computational Mechanics	University of West Bohemia	2021	15	Scopus
46	Nilesh Kumar Thakur and Archana Ojha	Complex plankton dynamics induced by adaptation and defense	Modeling Earth Systems and Environment	Springer	2020	Vol. 6, P. 907-916	Scopus
47	Nilesh Kumar Thakur and Archana Ojha	Complex Dynamics of Delay-Induced Plankton-Fish Interaction Exhibiting Defense	SN Applied Sciences	Springer	2020	Vol. 2, P. 1114	Scopus
48	Nilesh Kumar Thakur, Archana Ojha, Debaldev Jana and Ranjit Kumar	Modeling the Plankton-Fish Dynamics with Top Predator Interference and Multiple Gestation Delays	Nonlinear Dynamics	Springer	2020	Vo. 100, P. 4003-4029.	SCI

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49	Archana Ojha, and Nilesh Kumar Thakur	Exploring the complexity and chaotic behavior in plankton–fish system with mutual interference and time delay	BioSystems	Elsevier	2020	Vol. 198 P. 104283 (1-19)	SCI
50	Vivek Kumar Yadav, Pradeep Kumar Singh, Deepmala Sharma, Himanshu Pandey, Sunil Kumar Singh, Vishnu Agarwal	Autoinducer N-(3-oxododecanoyl)-L-homoserine lactone induces calcium and reactive oxygen species-mediated mitochondrial damage and apoptosis in blood platelets.	Microbial Pathogenesis	Elsevier	2021	DOI: 10.1016/j.micpath.2021.10.4792	SCI
51	ManmohitKalia, Devendra Singh, Deepmala Sharma, ShahidSuhailNarvi, Vishnu Agarwal	Senna alexandriana Mill as a Potential Inhibitor for Quorum Sensing-Controlled Virulence Factors and Biofilm Formation in Pseudomonas aeruginosa PAO1	Pharmacognosy Magazine	Wolters Kluwer - Medknow	2020	16(72), 797-802  DOI: 10.4103/pm.pm_315_20	SCI
52	Garib Nath Singh, Awadhesh K. Pandey & Anup Kumar Sharma	Some improved and alternative imputation methods for finite population mean in presence of missing information	Communications in Statistics - Theory and Methods	Taylor & Francis	2020	DOI:10.1080/03610926.2020.1713375	SCI
53	Anup Kumar Sharma and Alok Kumar Singh	Estimation of Population Variance Under an Imputation Method in Two-Phase Sampling	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences	Springer	2020	90, 185–191(2020)	SCI
54	Anup Kumar Sharma and Amod Kumar	Efficient General Class of Estimators for Population Mean in Two-Phase Sampling under Missing Information at Random	Journal of Modern Applied Statistical Methods	Wayne State University Library System	2020	Article in Press	Scopus

## Department of Computer Applications

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1.	TN Verma, SL Sinha	Experimental And Numerical Investigation Of Contaminant Control In Intensive Care	Journal of		2020	Volume	ESCI

		Unit: A Case Study Of Raipur, India	Thermal Engineering			6, Issue 5, Page 736-750	
2.	DK Baghel, SL Sinha, S K Dewangan	Numerical analysis of heat transfer under a radiant warmer	Heat Transfer		2020	49(4), 2406-2421	ESCI
3.	SK Dhurandhar, SL Sinha, SK Verma -, 2020	Effects of Mixing Vane Spacer on Flow and Thermal Behavior of Fluid in Fuel Channels of Nuclear Reactors—A Review	Nuclear Technology		2020	206(5), 663-696	SCIE
4.	GA Ganesh, SL Sinha, TN Verma	Numerical simulation for optimization of the indoor environment of an occupied office building using double-panel and ventilation radiator	Journal of Building Engineering		2020	29, 101-139	SCIE
5.	PD Dewangan, VP Singh, SL Sinha ,	Improved Approximation for SISO and MIMO Continuous Interval Systems Ensuring Stability	Circuits, Systems, and Signal Processing		2020	1-12	SCIE
6.	GA Ganesh, SL Sinha, TN Verma	Effect of inlet airflow direction on the indoor environment of a naturally ventilated room using CFD	Int. J. Eng. Adv. Technol		2020	9 (3), 580-591	SCIE
7.	AK Sahu, SL Sinha, TN Verma	Numerical Simulation Method to Predict Air Flow and Contaminant Control in a Multiple Bed Intensive Care Unit of Hospital	Advances in Biomedical Engineering and Technology		2021	9-19	ESCI
8.	TB Chandra, K Verma, BK Singh, D Jain, SS Netam	Coronavirus disease (COVID-19) detection in Chest X-Ray images using majority voting based classifier ensemble	Expert systems with applications, 2021	Elesvier	2021	Volume 165, 2021, 113909, ISSN 0957-4174,	SCIE
9.	Manju Lata sahu, Mithilesh Atulkar, Mitul kumar Ahirwal	IOT-Based Smart Healthcare System: A Review on Constituent Technologies	Journal of circuits, systems, and Computers	World Scientific Publishing Company	2021	Vol. 30, No. 11	SCI
10.	Manju Lata sahu, Mithilesh Atulkar, Mitul kumar Ahirwal	IoT Enabled Cloud based Real Time Remote ECG Monitoring System	Journal of medical engineering and technology	Taylor & Francis	2021	In press	Scopus
11.	N. K. Rout, M. Atulkar and M. Kumar Ahirwal,	A Review on Content Based Image Retrieval System: Present Trends and Future Challenges”	International Journal of Computational Vision and	Accepted(i n press)	2020	(in press)	

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12.	Nimisha Gupta, Mitul Kumar Ahirwal, Mithilesh Atulkar	Human Decision Making Modelling for Gambling Task under Uncertainty and Risk	International Journal of Information and Decision Sciences	Inderscience	2020	In press	Scopus
13.	A. Londhe, Mithilesh Atulkar	Semantic segmentation of ECG waves using hybrid channel-mix convolutional and bidirectional LSTM	Biomedical Signal Processing & Control	Elsevier	2020	vol. 63, pp.1-11	SCIE and Scopus Indexed
14.	Panigrahi S., Verma K., Tripathi P. (2021)	Qualitative Analysis of Recursive Search Algorithm: A Case Study	Intelligent and Cloud Computing. Smart Innovation, Systems and Technologies		2021	Vol 194. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-15-5971-6_91">https://doi.org/10.1007/978-981-15-5971-6_91</a>	
15.	TB Chandra, K Verma, D Jain, SS Netam	Segmented Lung Boundary Correction in Chest Radiograph Using Context-Aware Adaptive Scan Algorithm	Advances in Biomedical Engineering and Technology,		2021	Lecture Notes in Bioengineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-15-6329-4_23">https://doi.org/10.1007/978-981-15-6329-4_23</a> , 263-275	
16.	Tej Bahadur Chandra, Kesari Verma, Bikesh Kumar Singh, Deepak Jain, Satyabhuwan Singh Netam,	Automatic detection of tuberculosis related abnormalities in Chest X-ray images using hierarchical feature extraction scheme	Expert Systems with Applications,	Science Direct	2020	Volume 158, 2020, 113514, ISSN 0957- 4174,	SCIE
17.	Tej Bahadur Chandra, Kesari Verma,	Analysis of quantum noise-reducing filters on chest X-ray images: A review,  Measurement	Measurement	Science Direct	2020	Volume 153, 2020, 107426, ISSN	SCIE

						0263-2241, <a href="https://doi.org/10.1016/j.measurement.2019.107426">https://doi.org/10.1016/j.measurement.2019.107426</a> .	
18.	Tej Bahadur Chandra, Kesari Verma, Deepak Jain, Satyabhuwan Singh Netam	Localization of the suspected abnormal region in chest radiograph images	IEEE		2020	2020 First international conference on power, control and computing technologies (ICPC2T)	
19.	Neelam Agrawal, Kesri Verma	Dimensionality Reduction on Hyperspectral Data Set	IEEE			2020 First International Conference on Power, Control and Computing Technologies (ICPC2T)	
20.	Tej Bahadur Chandra, Kesari Verma	Pneumonia detection on chest X-Ray using machine learning paradigm	Computer Vision			Proceedings of 3rd International Conference on Computer Vision and Image Processin	



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21.	Giridhar Urkude, Manju Pandey	Contextual triple inference using a semantic reasoner rule to reduce the weight of semantically annotated data on fail-safe gateway for WSN	Journal of Ambient Intelligence and Humanized Computing	Springer	2021	Vol.1	SCI
22.	Rashmi Srivastava, Manju Pandey	Human Fall Detection Using Efficient Kernel and Eccentric Approach	International Journal of E-Health and Medical Communications	Scopus	2021	Vol. 12, pages 62-80	SCI
23.	Giridhar Urkude, Manju Pandey	AgrioOn: A Comprehensive Ontology for Green IoT based Agriculture	Journal of Green Engineering	Alpha Publisher	20-21	Vol.10, Page-7078-7101	Scopus
24.	Akshay Hinduja, Manju Pandey	Comparative study of MCDM methods under different levels of uncertainty	Int. J. Information and Decision Sciences,	Vision	21	Vol.13.No.1	Scopus
25.	Dr. Shyam Sundar	Two heuristics for the rainbow spanning forest problem	European Journal of Operational Research	Elsevier	2020	285, 853-864	SCI (Impact Factor: 4.213)
26.	K. Sowjanya and Mou Dasgupta	A ciphertext-policy Attribute based encryption scheme for wireless body area networks based on ECC	Journal of Information Security and Applications	Elsevier	2020	Yet to receive, available online on 1 <sup>st</sup> October, 2020	SCI
27.	Anindya Kumar Biswas and Mou Dasgupta	Two Polynomial Based $(t, n)$ Threshold Secret Sharing Scheme with Cheating Detection	Cryptologia	Taylor and Francis	2020	Vol-44(4), PP-357-370	SCI
28.	Anindya Kumar Biswas and Mou Dasgupta	Bitcoin Cryptocurrency: It's Cryptographic Weaknesses and Remedies	Asia Pacific Journal of Information Systems	Print in Korea by e-article	2020	Vol-30(1), PP-21-30	Scopus
29.	Amrita Datta and Mou Dasgupta	On accurate localization of sensor nodes in underwater sensor networks: a Doppler shift and modified genetic algorithm based	Evolutionary Intelligence	Springer	2020	Yet to receive, available	Scopus

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30.	K. Sowjanya, Mou Dasgupta, S. Ray and M.S. Obaidat	An Efficient Elliptic Curve Cryptography-Based Without Pairing KPABE for Internet of Things	IEEE Systems Journal	IEEE	2020	Vol-14(2), PP-2154-2163	SCI
31.	K. Sowjanya, Mou Dasgupta and S. Ray	An elliptic curve cryptography based enhanced anonymous authentication protocol for wearable health monitoring systems	International Journal of Information Security	Springer	2020	Vol-19(1), PP-129-146	SCI
32.	Suman Majumder, S. Ray, D. Sadhukhan, M. K. Khan and Mou Dasgupta	ECC-CoAP: Elliptic Curve Cryptography based Constraint Application Protocol for Internet of Things	Wireless Personal Communications	Springer	2021	Vol-116, PP-1867-1896	SCI
33.	D. Sadhukhan, S. Ray, G. P. Biswas, M. K. Khan and Mou Dasgupta	A Lightweight Remote User Authentication Scheme for IoT Communication Using Elliptic Curve Cryptography	The Journal of Supercomputing	Springer	2021	Vol-77(2), PP-1114-1152	SCI
34.	K. Sowjanya, Mou Dasgupta and S. Ray	Elliptic Curve Cryptography based Authentication scheme for Internet of Medical Things	Journal of Information Security and Applications	Elsevier	2021	Available online on 25 <sup>th</sup> January 2021	SCI
35.	T.K. Das, S. Adepu and J. Zhou.	Anomaly Detection in Industrial Control Systems using Logical Analysis of Data	Computers and Security	Elsevier	2020	96:10193-5	SCI

## Department of Mechanical Engineering

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1.	Prateek Modi & A. M. Rawani	An Empirical Investigation of Innovation Management Practices of Small and Medium Scale Enterprises (SMES)	<i>International Journal of E-Entrepreneurship</i>	IGI Global	2021	11,17-35	SCOPUS

			<i>urship and Innovation (JEEI),</i>				
2.	Ajit Kumar Singh & A. M. Rawani	Improving the weight of Technical Attributes in Quality Function Deployment by the Integration of Techniques for Order of Preference by Similarity to Ideal Solution method	International Journal of Productivity and Performance Management	Emerald	2020	Ahead of print	ESCI, SCOPUS
3.	Prateek Modi & A. M. Rawani	Drivers of Innovation Practices in SMEs: A Literature Review.	<i>International Journal of E-Entrepreneurship and Innovation (JEEI),</i>	IGI Global	2020	10, 28-40	SCOPUS
4.	Sachin Meshram & A. M. Rawani	Entrepreneurial Motivations: Evidence from a developing region in India, (Accepted for Publication).	<i>International Journal of Process Management and Benchmarking</i>	Inderscience	2020	Ahead of Print	SCOPUS
5	TN Verma, SL Sinha	Experimental And Numerical Investigation Of Contaminant Control In Intensive Care Unit: A Case Study Of Raipur, India	Journal of Thermal Engineering		2020	Volume 6, Issue 5, Page 736-750	ESCI
6	DK Baghel, SL Sinha, S K Dewangan	Numerical analysis of heat transfer under a radiant warmer	Heat Transfer		2020	49(4), 2406-2421	ESCI
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8	GA Ganesh, SL Sinha, TN Verma	Numerical simulation for optimization of the indoor environment of an occupied office building using double-panel and ventilation radiator	Journal of Building Engineering		2020	29, 101-139	SCIE
9	PD Dewangan, VP Singh, SL Sinha ,	Improved Approximation for SISO and MIMO Continuous Interval Systems Ensuring Stability	Circuits, Systems, and Signal Processing		2020	1-12	SCIE
10	GA Ganesh, SL Sinha, TN Verma	Effect of inlet airflow direction on the indoor environment of a naturally ventilated room using CFD	Int. J. Eng. Adv. Technol		2020	9 (3), 580-591	SCIE

11	AK Sahu, SL Sinha, TN Verma	Numerical Simulation Method to Predict Air Flow and Contaminant Control in a Multiple Bed Intensive Care Unit of Hospital	Advances in Biomedical Engineering and Technology		2021	9-19	ESCI
12	R. K. Yadav	Geometric analysis and scope of nanofluid in micro channel heat sink for electronic cooling application –a review	International journal of mechanical and production engineering research and development (IJMPERD)	Trans stellar journal publication.. research consultancy (tjprc pvt. Ltd.)	2020	Vol. 10 issu3	Scopus
13	N. K. Jain	A Non-Classical Analytical Approach for Vibration Analysis of Isotropic and Fgm Plate Containing a Star Shaped Crack	Journal of Mechanics	Cambridge University Press	2020	36 (4), 465-484	SCI
14	Agrawal, A., Kumar, C., & Mukti, S. K.	Role of Information and Communication Technology (ICT) to Enhance the Success of Knowledge Management (KM): A Study in a Steel Plant	Journal of the Knowledge Economy	Springer Nature	2020	1-27	SSCI
15	V. K. Deshmukh, M. Pradhan, H. K. Narang, M. S. Rajput, and S. K. Mukti	Materials Today: Proceedings Prediction of electrodeposited copper ions in high speed jet electrodeposition for MEMS fabrication using ANN	Materials Today	Elsevier	2020		Scopus
16	Animesh Agrawal, Hemant Kumar Diwakar and Suraj Kumar Mukti	Employee Productivity and Service Quality Enhancement Using ERP with Knowledge Management: A Study in a Power Distribution Company in the Global Context	International Journal of Knowledge Management (IJKM)	IGI Global	2020	16	Scopus + ESCI
17	T Sachdev, V K Gaba, A K Tiwari	Performance analysis of desalination system working on humidification-dehumidification coupled with solar assisted air heater and wind tower: Closed and open water cycle	Solar Energy	Elsevier	2020	205, 254- 262	SCI
18	R Sharma, V K Gaba, S I Kundalwal, R S Kumar	Estimation of thermal properties of fuzzy carbon fiber heat exchanger using micromechanics approach	Journal of Indian Chemical Society	Indian Chemical Society	2020	97, 1169- 1177	SCI
19	T Sachdev, V K Gaba, A K Tiwari	Solar desalination system integrated to use waste heat of air conditioners for continuous output: suitable for coastal areas	Desalination and Water Treatment	DESALINATION PUBL	2020	174, 1-10	SCI

20	L Mahto, D Pal, V K Gaba, M Agrawal	A review on coatings based on modified surface topography-biomimetic approach for the inhibition of marine biofouling	Journal of Indian Chemical Society	Indian Chemical Society	2020	97, 1047-1054	SCI
21	A Somwanshi, P R Mishra, V K Gaba	Thermal analysis of a dual-purpose cooler used for air cooling and mild refrigeration	Thermal Science and Engineering Progress	Elsevier	2020	17, 1-8	Scopus
22	T Sachdev, V K Gaba, A K Tiwari	Performance Analysis of Solar Desalination System for Improved Productivity by using Waste Heat of Household Chimney	IJRTE	Blue Eyes Intelligence Engineering and Sciences Publication	2020	8(6), 3221-3225	Scopus
23	Palash Soni, V K Gaba	Performance Analysis of Adsorption Refrigeration System Using Silicagel/Methanol Pair: Experimental & Analytical (Accepted)	Journal of Thermal Engineering	YILDIZ TECHNICAL UNIV	2020	Accepted	ESCI
24	T Sachdev, V K Gaba, A K Tiwari	Comparative Thermal Analysis of Applications Using Novel Solar Air Heater With U-Shaped Longitudinal Fins: Suitable For Coastal Regions (Accepted)	Journal of Thermal Engineering	YILDIZ TECHNICAL UNIV	2020	Accepted	ESCI
25	VS Yadav, AR Singh, RD Raut, UH Govindarajan	Blockchain technology adoption barriers in the Indian agricultural supply chain: an integrated approach	Resources, Conservation and Recycling	Elsevier	2020	161, 104877	VS Yadav, AR Singh, RD Raut, UH Govindarajan
26	N Jain, AR Singh	Sustainable supplier selection under must-be criteria through Fuzzy inference system	Journal of Cleaner Production	Elsevier	2020	248, 119275	N Jain, AR Singh
27	V Swarnakar, AR Singh, J Antony, AK Tiwari, E Cudney, S Furterer	A multiple integrated approach for modelling critical success factors in sustainable LSS implementation	Computers & Industrial Engineering	Elsevier	2020	150, 106865	V Swarnakar, AR Singh, J Antony, AK Tiwari, E Cudney, S Furterer

28	V Swarnakar, AK Tiwari, AR Singh	Evaluating critical failure factors for implementing sustainable lean six sigma framework in manufacturing organization	International Journal of Lean Six Sigma	Emerald	2020	11(6), 1083-1118	V Swarnakar, AK Tiwari, AR Singh
29	VS Yadav, AR Singh, RD Raut, UH Govindarajan	Blockchain technology adoption barriers in the Indian agricultural supply chain: an integrated approach	Resources, Conservation and Recycling	Elsevier	2020	161, 104877	VS Yadav, AR Singh, RD Raut, UH Govindarajan
30	N Jain, AR Singh, RK Upadhyay	Sustainable supplier selection under attractive criteria through FIS and integrated fuzzy MCDM techniques	International Journal of Sustainable Engineering	Taylor & Francis	2020	13 (6), 441-462	SCOPUS
31	K Pant, VS Yadav, AR Singh	Design of multi-tier multi-time horizon closed-loop supply chain network with sustainability under uncertain environment for Indian paper industry	International Journal of Sustainable Engineering	Taylor & Francis	2020	--	SCOPUS
32	VS Narwane, RD Raut, VS Yadav, AR Singh	Barriers in sustainable industry 4.0: a case study of the footwear industry	International Journal of Sustainable Engineering	Taylor & Francis	2020	--	SCOPUS
33	N Jain, AR Singh	Sustainable supplier selection criteria classification for Indian iron and steel industry: a fuzzy modified Kano model approach	International Journal of Sustainable Engineering	Taylor & Francis	2020	13 (1), 17-32	SCOPUS
34	V Swarnakar, AR Singh, AK Tiwari	Evaluating the effect of critical failure factors associated with sustainable Lean Six Sigma framework implementation in healthcare organization	International Journal of Quality & Reliability Management	Emerald	2020	--	SCOPUS
35	Agnivesh Kumar Sinha, H. K. Narang and S. Bhattacharya	A fuzzy logic approach for modelling and prediction of mechanical properties of hybrid abaca-reinforced polymer composite	<i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i>	Springer	2020	<a href="https://doi.org/10.1007/s40430-020-02377-4">https://doi.org/10.1007/s40430-020-02377-4</a>	SCIE
36	Rityuj Singh Parihar, Raj Kumar Sahu, Srinivasu Gangi Setti	Novel design and composition optimization of self-lubricating functionally graded cemented tungsten carbide cutting tool material for dry machining	Advances in Manufacturing	Springer	2021	9, 34 - 46	SCI

37	Rajesh Egala, Jagadeesh G V and Srinivasu Gangi Setti	Experimental investigation and prediction of tribological behavior of unidirectional short castor oil fiber reinforced epoxy composites	Friction	Springer	2021	9, 250-272	SCI
38	Jagadeesh G V, Srinivasu Gangi Setti	A review on micromechanical methods for evaluation of mechanical behavior of particulate reinforced metal matrix composites	Journal of Material Science	Springer	2020	55, 9848–9882	SCI
39	Jagadeesh G.V., Srinivasu Gangi Setti	A current status on the residual stress characterization by crystal lattice strain (Diffraction) method	Journal of Structural Chemistry	Springer	2020	61 (2) 247–258	SCI
40	Jagadeesh G V, Srinivasu Gangi Setti	Influence of Ball Burnishing Parameters on the Surface Hardness of Magnesium Alloy	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	Trans stellar	2020	10, 427-433	Others
41	Rajesh Egala, Srinivasu Gangi Setti	Identification of Best Network and Transfer Function for Predicting the Mechanical Properties of Unidirectional Long Ricinus Communis L Fiber Reinforced Epoxy Composite for ANN Modelling	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	Trans stellar	2020	10, 440 - 450	Others
42	K K Guduru, G. Srinivasu	Effect of Heat and Chemical Post treatment on Flexural Properties of Carbon Fiber Reinforced Poly-Lactic Acid Composite by FDM	International Journal of Mechanical and Production Engineering	Trans stellar	2020	10, 199-205	Others

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43	Vimal Kumar Deshmukh, Ankit Namdev, HK Narang, MS Rajput, PM Pandey	Instantaneous Fabrication of Thin MEMS Features by Copper Electrodeposition Using Modified Inkjet Printer	<i>Journal of Nano- And Electronic Physics</i>	Sumy State University	2020	Vol. 12 No 2, 02044	Scopus
44	Atul Kumar Sahu, Nitin Kumar Sahu, Anoop Kumar Sahu, Mridul Singh Rajput, Harendra Kumar Narang	An Investigation Tool for Mounting Sustainable Practice: Modeling Using GIVTFNs in an Indian Context	Journal International Journal of Decision Support System Technology (IJDSST)	IGI Global	2020	Volume 12 Issue 2 Pages 25-49	Scopus
45	Agnivesh Kumar Sinha, Harendra Kumar Narang, Somnath Bhattacharya	A fuzzy logic approach for modelling and prediction of mechanical properties of hybrid abaca-reinforced polymer composite	Journal Journal of the Brazilian Society of Mechanical Sciences and Engineering	Springer Berlin Heidelberg	2020	Volume 42 Issue 282 Pages 282	SCI
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47	Agnivesh Kumar Sinha, Harendra Kumar Narang, Somnath Bhattacharya	Experimental Determination, Modelling and Prediction of Sliding Wear of Hybrid Polymer Composites Using RSM and Fuzzy Logic	Arabian Journal for Science and Engineering	Springer Berlin Heidelberg	2020	Volume 27 Issue 9 Pages 597-608	SCI
48	Agnivesh Kumar Sinha, Harendra Kumar Narang, Somnath Bhattacharya	Mechanical properties of hybrid polymer composites: a review	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Springer Berlin Heidelberg	2020	Volume 42 Issue 8	SCI
49	Pratik Kumar Verma, Nisha Netam	A case study on thermal comfort analysis of school building	Materials Today: Proceedings,	Elsevier	May 2020	Volume 28, Part 4, 2020, Pages 2501-2504	Scopus



50	Bhagirathi Rajwade, Nisha Netam	Investigation of effects of corncob ash in fly ash bricks	Materials Today: Proceedings,	Elsevier	May 2020	Volume 28, Part 4, 2020, Pages 2431-2434.	Scopus
51	Vishal Rajnath Singh, Nisha Netam,	Effect of convective heat transfer coefficient on estimation of effective thermal conductivity of two- phase material,	Materials Today: Proceedings,	Elsevier	May 2020	Volume 28, Part 4, 2020, Pages 2236-2240	Scopus
52	VISHWANATH KAVIRAJ, NISHA NETAM* & CHAMAN LAL PAL	EFFECT OF VERTICAL LOUVER SHADING SYSTEM ON THERMAL PERFORMANCE OF BUILDING,	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	Transstellar Journal Publications	2020	Vol. 10, Special Issue, Aug 2020, 223–231	Scopus
53	Nisha Netam, Shubhashis Sanyal, Shubhankar Bhowmick	A Mathematical Model Featuring Time Lag and Decrement Factor to Assess Indoor Thermal Conditions in Low-Income-Group House	Journal of Thermal Engineering	Yildiz Technical University	April 2020		
54	R. S. Parihar, Raj Kumar Sahu, and S. G. Setti	Novel design and composition optimization of self-lubricating functionally graded cemented tungsten carbide cutting tool material for dry machining	Advances in Manufacturing	Springer	2020	1-13	SCI
55	M. K. Sahu and R. K. Sahu	Experimental Investigation, Modeling, and Optimization of Wear Parameters of B4C and Fly-Ash Reinforced Aluminum Hybrid Composite	Frontiers in Physics	Frontiers in Physics	2020	Vol-8 page- 1-14	SCI
56	D. Sahu and R. K. Sahu	Raman spectroscopy of pre-strained VHB 4910 elastomer towards actuator application	Vibrational Spectroscopy	Elsevier	2020	Vol-106 p-102994	SCI
57	Govind Sahu, MS Rajput, SP Mahapatra	Poly(lactic acid) nanocomposites for biomedical applications: effects of calcium phosphate, and magnesium phosphate nanoparticles concentration	Plastics, Rubber and Composites	Taylor & Francis	2021	1-13, <a href="https://doi.org/10.1080/14658011.202">https://doi.org/10.1080/14658011.202</a>	SCI

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58	Atul Kumar Sahu, Nitin Kumar Sahu, Anoop Kumar Sahu, Mridul Singh Rajput, Harendra Kumar Narang	An Investigation Tool for Mounting Sustainable Practice: Modeling Using GIVTFNs in an Indian Context	International Journal of Decision Support System Technology (IJDSST)	Publisher IGI Global	2020	Volume 12 Issue 2 Pages 25-49	Scopus
59	Vimal Kumar Deshmukh, Minketan Pradhan, HK Narang, Mridul Singh Rajput, Suraj Kumar Mukti	Prediction of electrodeposited copper ions in high speed jet electrodeposition for MEMS fabrication using ANN	Journal Materials Today: Proceedings	Publisher Elsevier	2020	Volume 28 Pages 2527-2531	Scopus
60	Vimal Kumar Deshmukh, Ankit Namdev, HK Narang, MS Rajput, PM Pandey	Instantaneous Fabrication of Thin MEMS Features by Copper Electrodeposition Using Modified Inkjet Printer	Журнал нано- та електронної фізики (Journal of nano- and electronic physics)	Publisher Sumy State University	2020	Vol. 12 No 2, 02044(4p p) 02044-1-4	Scopus
61	Govind Sahu, MS Rajput, SP Mahapatra	Morphology, Mechanical and Rheological Properties of Polylactic Acid Nanocomposite Film	Журнал нано- та електронної фізики (Journal of nano- and electronic physics)	Publisher Sumy State University	2020	Vol. 12 No 2, 02004(4p p) (2020) 02004-1-4	Scopus
62	Atul Kumar Sahu, Harendra Kumar Narang, Mridul Singh Rajput	A novel approach for benchmarking maintenance based on fuzzy reliability index for the replacement of street lights under uncertainty	Journal International Journal of Process Management and Benchmarking	Publisher Inderscience Publishers (IEL)	2020	Volume 10 Issue 2 Pages 177-195	Scopus
63	Rahul Sharma, Vivek Kumar Gaba R Suresh Kumar	Estimation of Thermal Properties of Fuzzy Carbon Fiber Heat Exchanger Using Micromechanics Approach	Journal of Indian Chemical Society	Elsevier	2020	97, 174-182	SCI

	N. Mehadi Khan R. Suresh Kumar	Smart control of cylindrical shells incorporating Murakami Zig-Zag function	Composite Structures	Elsevier	2021	257, 113044	SCI
64	Tapas D, Binoy K B, Jagadish, Promod KP	Machinability study of 430 stainless steel using tap water in EDM	Materials Today: Proceedings	Elsevier	2020	26(2), 2179-2183	Scopus
65	Binoy K B, Tapas Debnath, Jagadish, Promod K P	Machinability assessment of titanium grade 2 alloy using deionized water in EDM	Materials Today: Proceedings	Elsevier	2020	26(2), 2221-2225	Scopus
66	Alkesh B, Jagadish, Surajit B, Shubham P	Finite Element Modal Analysis of Bamboo Based Tricycle.	International Journal of Mechanical and Production Engineering Research and Development	Trans Stellar Publisher	2020	10 (SI):434-439	Scopus
67	Jagadish, Sandeep K (2020)	Performance Analysis and Optimization of Different Electrode Materials and Dielectric Fluids on Machining of High Carbon High Chromium Steel in Electrical Discharge Machining.	Proceedings of the National Academy of Sciences, India Section A: Physical Sciences	Springer	2020	<a href="https://doi.org/10.1007/s40010-020-00727-4">https://doi.org/10.1007/s40010-020-00727-4</a>	SCIE
68	Sathish K A, Sreeramulu D, Jagadish	Classification and Automatic Feature-based Extraction approach for cylindrical and Milling Parts.	International Journal of Manufacturing, Materials, and Mechanical Engineering	IGI Global	2021	11(3): 280620-034011	ESCI, Scopus
69	Manjunath Patel G C, Sandeep Kumar, Jagadish, Danil Y P, Khaled G	Experimental analysis and optimization of EDM parameters on HcHcr steel in context with different electrodes & dielectric fluids using Hybrid Taguchi-based PCA-Utility & CRITIC-Utility Approaches.	Metals	MDPI Publisher	2021	11(3), 4191-41922	SCIE
70	Tatjana V. Sibalija, Sandeep K, Manjunath Patel G C, Jagadish	A soft computing-based study on WEDM optimization in processing Inconel 625	Neural Computing and Applications	Springer	2021	1-15, Accepted -In Press	SCI

71	Manjunath Patel G.C., Jagadish	Experimental modeling and optimization of surface quality and thrust forces in drilling of high strength Al 7075 alloy: CRITIC and Meta-heuristic Algorithms.	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Springer	2021	1-10 Accepted -In Press	SCIE
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## Department of Physics

Sl. No	Authors	Paper Title	Journal Name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	Ananya Rout, Sadhana Agrawal	Influence of erbium doping on conduction behaviour of $Y_{6-x}Sr_x(SiO_4)_6F_2$ fluor-apatite ceramic prepared by solution combustion method	Ceramics International	Elsevier	2020	46, issue 6, 7912-7921.	SCI
2	Pailendra kumar Sahu, Sadhana Agrawal	Structural and photoluminescence behavior of a blue-green-emitting $Y_6Ba_4(SiO_4)_6F_2:xTb^{3+}$ fluorapatite phosphor	<i>Journal of Materials Science: Materials in Electronics</i>	Springer	2020	31, 18692-18705.	SCI
3	Shambhavi Katyayan, Sadhana Agrawal	Optical behavior of $Eu^{2+}$ and $Yb^{2+}$ doped alkaline earth metatitanate perovskite phosphors	Optik	Elsevier	2020	219, 165284.	SCI
4	Pradip Kumar, Bhushan Dhabekar, Sunil Dutt Sharma, Devesh Ramdhar Mishra, Narender Singh Rawat, Sonal Kadam, Suresh Chaudhari, Rakesh Mohan Chandola, Sadhana Agrawal	Relative energy response of indigenously developed optically stimulated luminescence dosimeters $Al_2O_3:C$ , $LiMgPO_4:B$ and $LiCaAlF_6:Eu,Y$ in therapeutic photon and electron beams	Luminescence : The Journal of Biological and Chemical Luminescence	Wiley	2020	1-6 ( <a href="https://doi.org/10.1002/bio.3832">https://doi.org/10.1002/bio.3832</a> ).	SCI
5	Shambhavi Katyayan, Sadhana Agrawal	$CaSiO_3:Eu^{2+}, Er^{3+}$ , $BaSiO_3:Eu^{2+}, Er^{3+}$ and $SrSiO_3:Eu^{2+}, Er^{3+}$ phosphors: molten salt synthesis, optical and thermal studies	<i>Journal of Materials Science: Materials in Electronics</i>	Springer	2020	31, 8472-8480.	SCI
6	Tarkeshwari Verma, Sadhana Agrawal	Investigation of TL characteristics of UV and gamma induced $Eu^{3+}$ and $Sm^{3+}$ activated $Y_2O_3$ phosphors	Chemical Physics Letters	Elsevier	2020	743, 137158.	SCI
7	Pradip Kumar, Sunil Dutt Sharma, Bhushan Dhabekar, Devesh Ramdhar Mishra, Narender Singh Rawat, Sonal Kadam, Suresh Chaudhari,	Patient-specific dosimetry using in-house developed osl disc dosimeters	<i>Radiation Protection Dosimetry</i>	Oxford Academic	2020	189, issue 1, 127-135.	SCI

	Rakesh Mohan Chandola, Sadhana Agrawal						
8	Shambhavi Katyayan, Sadhana Agrawal	Low temperature salt melt synthesis, thermal and optical studies of $AZrO_3:Eu^{3+}, Tb^{3+}$ perovskite phosphors	Optik	Elsevier	2020	204, 164125.	SCI
9	K. S. Ojha, A.K. Shrivastav	Optical and dielectric characterization of PVA capped ZnSe nanorods	J. Applied Spectroscopy	Springer	2020	87 (1), 128-133.	Scopus
10	Piyush Jha Ayush Khare	Fracto-Mechanoluminescence of $ZrO_2:Ti$ nanophosphor excited by impulsive excitation	Optical Materials	Elsevier	2020	99, 109477.	SCI
11	Ayush Khare	A critical review on the Efficiency Improvement of Upconversion Assisted Solar Cells	Journal of Alloys and Compound-s	Elsevier	2020	821, 153214.	SCI
12	Priyanka Roy, Numeshwar Kumar Sinha, Sanjay Tiwari Ayush Khare	A Review on Perovskite Solar Cells: Evolution of Architecture, Fabrication Techniques, Commercialization Issues and Status	Solar Energy	Elsevier	2020	198, 665-688.	SCI
13	Devendra Kumar Golhani, Ayush Khare, Gopal Krishna Burra, Vikas Kumar Jain, Jagannadha Rao Mokka	Microbes induced biofabrication of nanoparticles: A review	Inorganic and Nano-metal Chemistry	Taylor and Francis	2020		SCI
14	Piyush Jha, Ayush Khare, Pranav Singh, S. K. Nema	Fracto- mechanoluminescence of sugar crystals measured with different techniques	Journal of Luminescence	Elsevier	2020	222, 117176.	SCI
15	G. Nag Bhargavi, T. Badapanda, A. Khare, P. K. Ray, N. Brahme	Investigation of structural and optical properties of gadolinium modified barium zirconium titanate ceramic	Phase Transitions	Springer	2020	93 (6), 529-536.	SCI
16	D. Lilhare, A. Khare	Development of chalcogenide solar cells: Importance of CdS window layer	Opto-Electronics Review	Journals PAS	2020	28, 43-63.	SCI
17	Bhuneshwar Verma, R. N. Baghel, D. P. Bisen, N. Brahme, A. Khare	Synthesis and concentration dependent luminescent characterization of $BaMgSiO_4:Eu^{3+}$ phosphor	Journal of Alloys and Compound-s	Elsevier	2020	838, 155326.	SCI
18	Piyush Jha, Ayush Khare	$SrAl_2O_4: Eu, Dy$ mechanoluminescent flexible film for impact sensors	Journal of Alloys and Compound-s	Elsevier	2020	847, 156428.	SCI
19	Devjyoti Lilhare Ayush Khare	Temperature Dependent Characterizations of Chemical Bath Deposited $(Cd_x-Zn_{1-x})S$ Nanocrystalline Films for Solar Cell Applications	Optical Materials	Elsevier	2020	108, 110385.	SCI
20	Tarkeshwar Sinha,	Variations in Photovoltaic Parameters of	Applied	Springer	2020	126,	SCI

	Lekha Verma, Ayush Khare	CdTe/CdS Thin Film Solar Cells by Changing the Substrate for the Deposition of CdS Window Layer	Physics A: Materials Science and Engineerin-g			1-14.	
21	Anju Pansari Bijaya Kumar Sahoo	Interfacial electric field and cross plane thermal conductivity of GaN/InGaN superlattice ( $x=0.1$ and $0.3$ )	Applied Physics A	Springer	2020	Accepted	SCI
22	Santosh Kumar Patnaikuni, Sapan Mohan Saini, Rakesh Mohan Chandola, Pradeep Chandrakar, Vivek Chaudhary	Study of Asymmetric Margins in Prostate Cancer Radiation Therapy Using Fuzzy Logic	Journal of Medical Physics	Wolters Kluwer - Medknow	2020	45, 88-97.	Scopus
23	Santosh Kumar Patnaikuni, Sapan Mohan Saini, Rakesh Mohan Chandola, Pradeep Chandrakar, Rajiv Jain, Vivek Chaudhary	Study of normal tissue dosimetric benefit using asymmetric margin-based biological fuzzy decision making: volumetric modulated arc therapy of prostate cancer	Journal of Radio therapy in Practice	Cambridge University Press	2020	<a href="https://doi.org/10.1017/S14603969200009041-9">https://doi.org/10.1017/S14603969200009041-9</a> .	SCI
24	Sapan Mohan Saini	Electronic Structure and Thermoelectric Performance of Narrow-Gap GdNiSb Half Heusler Compound: Density Functional Calculations	Phys. Status Solidi B	Wiley	2020	p 1-8 DOI: 10.1002/pssb.202000491.	SCI
25	Ananya Rout, Sadhana Agrawal	Electronic and Optical Studies of $\text{Eu}^{3+}$ Doped $\text{Ca}_{6-x}\text{Na}_2\text{Y}_2(\text{SiO}_4)_6\text{F}_2$ Fluorapatite Ceramic Synthesized by Solution Combustion Method	Ceramics International	Elsevier	2021	DOI 10.1016/j.ceramint.2021.01.010.	SCI
26	Ananya Rout, Sadhana Agrawal	Investigation of electrical conduction in $\text{Ca}_{6-x}\text{Na}_2\text{Y}_2(\text{SiO}_4)_6\text{F}_2:x\text{Eu}^{3+}$ ceramic by complex impedance and electric modulus spectroscopy	Ceramics International	Elsevier	2021	47, issue 5, 7032-7044.	SCI
27	Sakshi Sharma, A. K. Shrivastav, Anjali Oudhia, Mohan L Verma	Ab Initio Investigation on Interaction of Zig-Zag Graphene Nanoribbon and ZnO Buckyball	<u>Journal of The Institution of Engineers (India): Series E</u>	Springer	2021	Accepted <a href="https://doi.org/10.1007/s40034-021-00204-6">https://doi.org/10.1007/s40034-021-00204-6</a> .	Scopus
28	Sudha Kumari Rakesh S. Moirangthem Bijaya Kumar Sahoo	Portable capillary sensor integrated with plasmonic platform for monitoring water pollutants	Plasmonics	Springer	2021	Accepted	SCI
29	Sapan Mohan Saini	Structural, electronic and thermoelectric performance of narrow-Gap LuNiSb half Heusler Compound: Potential Thermoelectric Material	Physica B: Condensed Matter	Elsevier	2021	<a href="https://doi.org/10.1016/j.physb.2021.412823">doi.org/10.1016/j.physb.2021.412823</a> .	SCI
30	Tarkeshwar Sinha, Devjyoti Lilhare	Temperature dependent structural, morphological and optical properties of	Rare Metals	Springer	2021	40(3), 701-707.	SCI

	and Ayush Khare	chemical bath deposited CdS films					
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## Department of Architecture

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	Dr. D. Sanyal, Dr. H. D. Diwan, Dr. S. Bhadauria, Dr. Praveen Kadwe,	Strategic Military Importance and architecture of ancient Rani Durgawati Monolithic rock fort of Gondwana Kingdom, Madan Mahal hill, Jabalpur, India	International Journal of Creative Research Thoughts,		2020	Vol 8	Other
2	Dr. D. Sanyal, Dr. H. D. Diwan, Dr. S. Bhadauria, Dr. Praveen Kadwe,	Sustainable Safety, Security and Strategic Structures in Precincts of ancient Hindu architectural Chittorgarh fort, Rajasthan, India	International Journal of Science & Engineering Development Research,		2020	Vol.5, Issue 10,	Other
3	Dr. D. Sanyal, Dr. H. D. Diwan, Dr. S. Bhadauria, Dr. Praveen Kadwe,	Geologic-Geomorphic Characteristics, Fortification And Architectural Elements of Ancient Hindu Military Check Post, Shivneri Hill Fort, Junnar, M.H., India,	Journal Of Emerging Technologies And Innovative Research,		2020,	Vol.7, Issue 10,	Other

## Department of Metallurgical & Materials Engineering

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	Neha Gupta	Template Development for Cellular Al 6xxx Cast Structure	International Conference MaterialTEC H2021, Materials Today: Proceedings	Elsevier	2021	Accepted	SCOPUS
2.	K. Raja Rao, Sudip K. Sinha	Synthesis and Phase Investigation of Equiatomic AlCrFeMnNi Alloys Dispersed	Materials Science	Trans Tech Publication	2020	978 , 145-151.	SCOPUS

		with Partially Stabilized Zirconia for Nuclear Applications,	Forum	s			
3.	Shashank Poddar, Arindam Bit , Sudip Kumar Sinha	A study on influence of anodization on the morphology of titania nanotubes over Ti6Al4V alloy in correlation to hard tissue engineering application	Materials Chemistry and Physics	Elsevier	2020	254 , 123457.	SCI
4.	Vinay Kumar Soni, S. Sanyal, Sudip .K. Sinha	Microstructure and Mechanical Properties of Non-Equiatomic FeCoNiCuMo High Entropy Systems	Advances in Materials and Processing Technologies	Taylor & Francis	2020	(doi.org/10.1080/2374068X.2020.1796166)	SCOPUS
5.	Vinay Kumar Soni, S. Sanyal, Sudip .K. Sinha	Property Oriented Design of Non Equiatomic High Entropy Alloy Composition	Advances in Materials and Processing Technologies	Taylor & Francis	2020	(doi.org/10.1080/2374068X.2020.1796166)	SCOPUS
6.	K. Raja Rao, Sudip K. Sinha	Effect of sintering temperature on microstructural and mechanical properties of SPS processed CoCrCuFeNi based ODS high entropy alloy	Materials Chemistry and Physics	Elsevier	2020	256, 123709	SCI
7.	Vinay Kumar Soni, S. Sanyal, Sudip .K. Sinha	Phase evolution and mechanical properties of novel FeCoNiCuMox high entropy alloys	Vacuum	Elsevier	2020	174, 109173	SCI
8.	K. Raja Rao, Sudip K. Sinha	Phase evolution in novel Y2O3 dispersed CrCuFeNiZn nanocrystalline multicomponent alloy prepared by mechanical alloying	Vacuum	Elsevier	2020	184, 109802.	SCI



9.	Vinay Kumar Soni, S. Sanyal, Sudip K. Sinha	Influence of tungsten on microstructure evolution and mechanical properties of selected novel FeCoCrMnW <sub>x</sub> high entropy alloys	Intermetallics	Elsevier	2021	132, 107161.	SCI
10.	Arunabh Meshram, D. Gautam, K. K. Singh	Recycling of White Aluminium Dross: Production of Potash Alum	Transaction of Indian Institute of Metals	Springer	2020		Scopus
11	Rohit Jha., M. D. Rao, Arunabh Meshram, H. R. Verma, K.K. Singh,	Potential of polymer inclusion membrane process for selective recovery of waste printed circuit boards: A review	Journal of Cleaner production	Elsevier	2020	265	Scopus
12	M.D. Rao., Arunabh Meshram, H.R Verma, K.K. Singh, T.R. Mankhand	Study to enhance cementation of impurities from zinc leach liquor by modifying the shape and size of zinc dust	Hydrometallurgy	Elsevier	2020	195	Scopus
13	Arunabh Meshram, Rohit Jha, Seby Varghese,	Towards recycling: understanding the modern approach to recover waste aluminium dross	Materials Today: Proceedings	Elsevier	2020	Accepted	Scopus
14	A. Agrawal, C. Kumar, Arunabh Meshram	Recovery of carbon rich material: recycling of spent pot lining: a review	Materials Today: Proceedings	Elsevier	2021	Accepted	Scopus
15.	G. Mishra, R. Jha, M. D. Rao, Arunabh Meshram, K. K. Singh	Recovery of silver from waste printed circuit board (WPCBs) through hydrometallurgical route: a review	Environmental challenges	Elsevier	2021	Accepted	New Journal
16	AK Behera, R Chandran, S Das, A Mallik	Wear Performance and Nanomechanical Behavior of Sonoelectroplated Cu-Graphene Nanocomposite Thin Films	Journal of Materials Engineering and Performance	Springer	2021	Published	SCI
17	AK Behera, AK Patel, R Mehta, S Sarkar, S Das, A	Exploration of in-house synthesized and functionalized graphene as reinforcement in Cu-matrix for improved mechanical and	Diamond and Related Materials	Elsevier	2020	Published	SCI

	Mallik	anti-corrosion properties					
18	P Biswas, A Kundu, HR Kotadia, A Mallik, S Das	Design and manufacturing of a novel continuous casting technique for the addition of ceramic particulate reinforcement, alloying elements and grain refiners in Al-system	CIRP Journal of Manufacturing Science and Technology	Elsevier	2020	Published	SCI
19	A kumar Behera, A Das, S Das, A Mallik,	Electrochemically functionalized graphene as an anti-corrosion reinforcement in Cu matrix composite thin films	International Journal of Minerals, Metallurgy and Materials	Springer	2020	Published	SCI
20	Neeraj Kumar, M.K Manoj,	Influence of B4C on dry sliding wear behavior of B4C/Al–Mg–Si composites synthesized via powder metallurgy route,	Metals and Materials International,	Springer	June 2020,	<a href="https://doi.org/10.1007/s12540-020-00814-6">https://doi.org/10.1007/s12540-020-00814-6</a>	SCI
21	Satya Kumar Dewangan, M. K. Tripathi , M. K. Manoj,	Material Flow Behavior and Mechanical Properties of Dissimilar Friction Stir Welded Al 7075 and Mg AZ31 Alloys Using Cd Interlayer, ).	Metals and Materials International, 2021	Springer	2021	(Accepted)	SCI
22	KK Rahangdale, S Ganguly	Structure, dielectricity and ferroelectricity measurement of new perovskite ceramics (1-x)BaTiO3-xBiMnO3 synthesized by solid-state reaction.	Materials Chemistry and Physics	Elsevier	2021	<a href="https://doi.org/10.1016/j.matchemphys.2020.124114">https://doi.org/10.1016/j.matchemphys.2020.124114</a>	SCI

23	S Gupta, J Sarkar, M Kundu, NR Bandyopadhyay, S Ganguly	Automatic recognition of SEM microstructure and phases of steel using LBP and random decision forest operator  Measurement	Measurement	Elsevier	2020	10.1016/J .MEASU REMEN T.2019.1 07224	SCI
24	S Gupta, A Banerjee, J Sarkar, M Kundu, SK Sinha, NR Bandyopadhyay and S. Ganguly	Modelling the steel microstructure knowledge for in-silico recognition of phases using machine learning	Materials Chemistry and Physics	Elsevier	2020	10.1016/J .MATCH EMPHY S.2020.1 23286	SCI
25	Satya Kumar Dewangan, M. K. Tripathi , M. K. Manoj,	Material Flow Behavior and Mechanical Properties of Dissimilar Friction Stir Welded Al 7075 and Mg AZ31 Alloys Using Cd Interlayer, ).	Metals and Materials International, 2021	Springer	2021	(Accepted d	SCI

**Department of Biomedical Engineering**

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1	TB Chandra, K Verma, BK Singh, D Jain, SS Netam	Coronavirus disease (COVID-19) detection in Chest X-Ray images using majority voting based classifier ensemble	Expert systems with applications	Elsevier	2021	165, 113909	SCI
2.	TB Chandra, K Verma, BK Singh, D Jain, SS Netam	Automatic detection of tuberculosis related abnormalities in Chest X-ray images using hierarchical feature extraction scheme	Expert systems with applications	Elsevier	2021	158, 113514	SCI
3.	S Mandal, BK Singh, K Thakur	Classification of working memory loads using hybrid EEG and fNIRS in machine learning paradigm	Electronics Letters	IET Digital Library	2020	56, 1386-1389	Scopus
4.	SK Tikka, BK Singh, SH Nizamie, S Garg, S Mandal, K Thakur, LK Singh	Artificial intelligence-based classification of schizophrenia: A high density electroencephalographic and support vector machine study	Indian Journal of Psychiatry	Medknow Publications	2020	62, 273	SCI
5	S Mandal, K Thakur, BK Singh, H Ram	Performance Evaluation of Spectrogram Based Epilepsy Detection Techniques Using Gray Scale Features	Journal of Ravishankar University	Journal of Ravishankar University (Part-B)	2020	33, 1-7	UGC
6	Saba L, Agarwal M, Patrick A, Puvvula A, Gupta SK, Carriero A, Laird JR, Kitas GD, Johri AM, Balestrieri A, Falaschi Z., Paschè A, Vijay Viswanathan V, Baz A, Alam I, Jain A, Naidu S, Oberleitner R, Khanna N, Bit A, Fatemi M, Alizad A, Suri J	Six artificial intelligence paradigms for tissue characterisation and classification of non-COVID-19 pneumonia against COVID-19 pneumonia in computed tomography lungs	Int J Comput Assist Radiol Surg	Springer	2021	1-12	SCI
7	Gupta S, Alrabaiah H, Christophe M, Rahimi-Gorji M, Nadeem S, Bit A	Evaluation of silk-based bioink during pre and post 3D bioprinting: A review	Journal of Biomedical Materials Research Part B: Applied	Wiley	2021	109 (279-93)	SCI

			Biomaterials				
8	Suri JS, Agarwal S, Gupta SK, Puvvula A, Biswas M, Saba L, Bit A, Tandel GS, Agarwal M, Patrick A, Faa G.	A narrative review on characterization of acute respiratory distress syndrome in COVID-19-infected lungs using artificial intelligence	Computers in Biology and Medicine	Elesvier	2021	130 (104210)	SCI
9	Gupta S, Bissoyi A, Patra PK, Bit A	Designing a Low-Cost Spin-Drying Desiccation Technique Using 3D Printed Whirligig Model for Preservation of Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells	Advances in Biomedical Engineering and Technology	Springer	2021	425-435	SCI
10	Suri JS, Puvvula A, Majhail M, Biswas M, Jamthikar AD, Saba L, Faa G, Singh IM, Oberleitner R, Turk M, Srivastava S, et al.	Integration of cardiovascular risk assessment with COVID-19 using artificial intelligence	Reviews in Cardiovascular Medicine	IMR Press	2020	21, 541-60	SCI
11	S Poddar, A Bit, SK Sinha	A study on influence of anodization on the morphology of titania nanotubes over Ti6Al4V alloy in correlation to hard tissue engineering application	Materials Chemistry and Physics	Elesvier	2020	254, 23457	SCI
12	JS Eswari, J Majdoubi, S Naik, S Gupta, A Bit, M Rahimi-Gorji, A Saleem	Prediction of stenosis behaviour in artery by neural network and multiple linear regressions	Biomechanics and modeling in mechanobiology	SPRINGER	2020	19, 1697-1711	SCI
13	Gatina D, Syromiatnikova V, Masgutova G, Zakirova E, Bit A, Salafutdinov I, Zhuravleva M.	The use of chitosan-silk fibroin-graphene oxide hydrogels for the regeneration of deep-layer skin wounds	EUROPEAN JOURNAL OF CLINICAL INVESTIGATION	WILEY	2020	50, 90-90	SCI
14	Samadian H, Farzamfar S, Vaez A, Ehterami A, Bit A, Alam M, Goodarzi A, Darya	A tailored polylactic acid/polycaprolactone biodegradable and bioactive 3D porous scaffold containing gelatin nanofibers and Taurine for bone regeneration	Scientific reports	NATURE RESEARCH	2020	10, 1-12	SCI

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15	Bit A, Alblawi A, Chattopadhyay H, Quais QA, Benim AC, Rahimi-Gorji M, Do HT.	Three dimensional numerical analysis of hemodynamic of stenosed artery considering realistic outlet boundary conditions	Computer methods and programs in biomedicine	ELSEVIER	2020	185, 105163	SCI
16	A Alblawi, AS Ranjani, H Yasmin, S Gupta, A Bit, M Rahimi-Gorji	Scaffold-free: A developing technique in field of tissue engineering	Computer methods and programs in biomedicine	ELSEVIER	2020	185, 105148	SCI
17	Singh D, Singh M, Bit A	Sharda Gupta, Rupsha Mukherjee, Rajendra Kumar Jangle	Advances in Biomedical Engineering and Technology	INDERSCIENCE ENTERPRISES LTD	2020	437	SCI
18	SK Sinha, A Bit	Microfluidics in tissue engineering	Biomaterials for Organ and Tissue Regeneration	AMER SCIENTIFIC PUBLISHERS	2020	567-598	SCI
19	S Poddar, A Bit, SK Sinha	Influence of electrolytic parameters in the formation of TiO <sub>2</sub> nanotubes over Ti6Al4V	Materials Today	ELSEVIER	2020	27, 2346-2348	SCI
20	Pankaj K Jain, Saurabh Gupta, Arnav Bhavsar, Aditya Nigam, Neeraj Sharma	Localization of common carotid artery transverse section in B-mode ultrasound images using faster RCNN: a deep learning approach	Medical & Biological Engineering & Computing	Springer Berlin Heidelberg	2020	1-12	SCI/ Scopus

## Department of Mining Engineering

Sl. No.	Authors	Paper title	Journal name	Publisher	Year	Volume, Page No.	Indexing (SCI/ Scopus/ Others)
1.	1. Mr. Ajay Singh Rathore 2. Dr. Manoj Pradhan, 3. Dr. S V Deo	Evaluation of coal mine overburden clay for assessing its suitability for brick making	International Journal of Applied Environmental Sciences	Research India Publications	2020	15(1), 63-75	Scopus

2.	1. Dr. Pankaj Dewangan 2. Dr. Manoj Pradhan, 3. Mr. Prince Kumar	Geotechnical, environmental and other issues pertaining to fly ash disposal in opencast mine voids	Journal of Mine, Metals and Fuels.	Books and Journals Pvt. Ltd.	2020	68(1), 25-32	Scopus
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5.	1. Dr. A. K. Dash	Accident investigation system in Indian mining industry: a case study.	Journal of Mine, Metal and Fuels.	Books and Journals Pvt. Ltd	2020	68(3)	Scopus
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