List of SCI Publications Published by CSIR-NEERI During 2020 (JAN-DEC)

Sr. No.	Divisions	Authors	Title	Journal Name	Pub. Year	Volume, Issue & Page No.	Article Number	Early Access Date	IF (2019)
1	C-SUM DIR	Biswas, P; Mamatha, S; Varghese, K; Johnson, R; Vijay, R; Kumar, R	3D printing of high surface area ceramic honeycombs substrates and comparative evaluation for treatment of sewage in Phytorid application	JOURNAL OF WATER PROCESS ENGINEERING	2020	37	101503		3.465
2	C-SUM DIR	Sakhre, S; Dey, J; Vijay, R; Kumar, R	Geospatial assessment of land surface temperature in Nagpur, India: an impact of urbanization	ENVIRONMENTAL EARTH SCIENCES	2020	79(10)	226		2.18
3	C-SUM DIR	Vijay, R; Dey, J; Sakhre, S; Kumar, R	Impact of urbanization on creeks of Mumbai, India: a geospatial assessment approach	JOURNAL OF COASTAL CONSERVATION	2020	24(1)	4		1.374
4	C-SUM DIR	Thakre, C; Laxmi, V; Vijay, R ; Killedar, DJ; Kumar, R	Traffic noise prediction model of an Indian road: an increased scenario of vehicles and honking	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2020	27(30), 38311-38320			3.056
5	CTMD	Bokare, Mandar; Bano, Shahana; Antony, Praveen Siluvai; Pal, Sheela; Biniwale, Rajesh	Selective separation of carbon dioxide from biogas mixture using mesoporous ceria and zirconium hydroxide	ADSORPTION-JOURNAL OF THE INTERNATIONAL ADSORPTION SOCIETY	2020	26(1), 51-59		OCT 2019	1.949
6	CZC	Aarthy, Mayilvahanan; Rajesh, Thangamani; Thirunavoukkarasu, Manikkannan	Critical review on microbial fuel cells for concomitant reduction of hexavalent chromium and bioelectricity generation	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY	2020	95(5), 1298-1307		NOV 2019	2.75
7	CZC	Cyril, PH; Saravanan, G	Development of advanced materials for cleaner energy generation through fuel cells	NEW JOURNAL OF CHEMISTRY	2020	44(46), 19977-19995			3.288
8	DIR	Alshetty, VD; Kuppili, SK; Nagendra, SMS; Ramadurai, G; Sethi, V; Kumar, R; Sharma, N; Namdeo, A; Bell, M; Goodman, P; Chatterton, T; Barnes, J; De Vito, L; Longhurst, J	Characteristics of tail pipe (Nitric oxide) and resuspended dust emissions from urban roads - A case study in Delhi city	JOURNAL OF TRANSPORT & HEALTH	2020	17	100653		2.418

9	DRC	Bhardwaj, P; Singh, KR; Jadeja, NB; Phale, PS; Kapley, A	Atrazine Bioremediation and Its Influence on Soil Microbial Diversity by Metagenomics Analysis	INDIAN JOURNAL OF MICROBIOLOGY	2020	60(3), 388-391			1.83
10	DRC	Yadav, TC; Jadeja, NB; Kapley, A	Metagenomic Insights in Activated Biomass Treating Industrial Wastewater at Different DO Levels	APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY	2020	192(2), 544-556			2.277
11	DRC	Viggor, S; Joesaar, M; Soares-Castro, P; Ilmjarv, T; Santos, PM; Kapley, A; Kivisaar, M	Microbial Metabolic Potential of Phenol Degradation in Wastewater Treatment Plant of Crude Oil Refinery: Analysis of Metagenomes and Characterization of Isolates	MICROORGANISMS	2020	8(5)	652		4.152
12	DRC DIR	Bherwani, Hemant; Singh, Anju; Kumar, Rakesh	Assessment methods of urban microclimate and its parameters: A critical review to take the research from lab to land	URBAN CLIMATE	2020	34	100690		3.834
13	DRC DZC DIR	Nair, M; Bherwani, H; Kumar, S; Gulia, S; Goyal, S; Kumar, R	Assessment of contribution of agricultural residue burning on air quality of Delhi using remote sensing and modelling tools	ATMOSPHERIC ENVIRONMENT	2020	230	117504		4.039
14	DRC DZC DIR	Bherwani, H; Nair, M; Musugu, K; Gautam, S; Gupta, A; Kapley, A; Kumar, R	Valuation of air pollution externalities: comparative assessment of economic damage and emission reduction under COVID-19 lockdown	AIR QUALITY ATMOSPHERE AND HEALTH	2020	13(6), 683-694			2.87
15	DRC DZC ERMD DIR	Bherwani, H; Gupta, A; Anjum, S; Anshul, A; Kumar, R	Exploring dependence of COVID-19 on environmental factors and spread prediction in India	NPJ CLIMATE AND ATMOSPHERIC SCIENCE	2020	3(1)	38		5.365
16	DZC	Gulia, S; Khanna, I; Shukla, K; Khare, M	Ambient air pollutant monitoring and analysis protocol for low and middle income countries: An element of comprehensive urban air quality management framework	ATMOSPHERIC ENVIRONMENT	2020	222	117120		4.039
17	DZC	Singh, S; Sukla, LB; Goyal, SK	Mine waste & circular economy	MATERIALS TODAY-PROCEEDINGS	2020	30(2), 332-339			0
18	DZC C-SUM DIR	Gupta, A; Vijay, R; Kumar, R	Hydrodynamic and Advection-Dispersion Simulation of Cool Seawater Discharges from an LNG Facility	INDIAN JOURNAL OF GEO-MARINE SCIENCES	2020	49(1), 7-14			0.328
19	DZC AID DIR	Gulia, S; Prasad, P; Goyal, SK; Kumar, R	Sensor-based Wireless Air Quality Monitoring Network (SWAQMN) - A smart tool for urban air quality management	ATMOSPHERIC POLLUTION RESEARCH	2020	11(9), 1588-1597			3.527

20	DZC DIR	Gulia, S; Tiwari, R; Mendiratta, S; Kaur, S; Goyal, SK; Kumar, R	Review of scientific technology-based solutions for vehicular pollution control	CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY				OCT 2020	2.429
21	DZC EMD BDU SHWMD	Raj, I; Gupta, A; Bansiwal, A; Vaidya, AN	A bench scale study on the startup, performance and optimization of the biological degradation of obnoxious air containing trimethylamine	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2020	8(1)	103529		4.3
22	DZC ERMD EMD	Gupta, A; Mulukutla, ANV; Gautam, S; TaneKhan, W; Waghmare, SS; Labhasetwar, NK	Development of a practical evaluation approach of a typical biomass cookstove	ENVIRONMENTAL TECHNOLOGY & INNOVATION	2020	17	100613		3.356
23	EBGD	Jasmin, C; Anas, A; Singh, D; Purohit, HJ; Gireeshkumar, TR; Nair, S	Aberrations in the microbiome of cyanobacteria from a tropical estuary polluted by heavy metals	MARINE POLLUTION BULLETIN	2020	160	111575		4.049
24	EBGD	Magare, ME; Sahu, N; Kanade, GS; Chanotiya, CS; Thul, ST	An Integrated Process of Value Addition to Citrus Waste and Performance of Fenton Process for Its Conversion to Biogas	WASTE AND BIOMASS VALORIZATION	2020	11(1), 165-172			2.851
25	EBGD	Pal, M; Yesankar, PJ; Dwivedi, A; Qureshi, A	Biotic control of harmful algal blooms (HABs): A brief review	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2020	268	110687		5.647
26	EBGD	Mishra, P; Tulsani, NJ; Jakhesara, SJ; Dafale, NA; Patil, NV; Purohit, HJ; Koringa, PG; Joshi, CG	Exploring the eukaryotic diversity in rumen of Indian camel (Camelus dromedarius) using 18S rRNA amplicon sequencing	ARCHIVES OF MICROBIOLOGY	2020	202(7), 1861-1872			1.884
27	EBGD	Pal, S; Qureshi, A; Purohit, HJ	Metagenomic Insight Towards Vanillin-Mediated Membrane Biofouling Prevention: In Silico Docking Validation	CURRENT MICROBIOLOGY	2020	77(9), 2233-2247			1.746
28	EBGD	Chakraborty, S; Roychoudhury, P; Samanta, I; Subudhi, PK; Lalhruaipuii; Das, M; De, A; Bandyopadhayay, S; Joardar, SN; Mandal, M; Qureshi, A; Dutta, TK	Molecular detection of biofilm, virulence and antimicrobial resistance associated genes of Salmonella serovars isolated from pig and chicken of Mizoram, India	INDIAN JOURNAL OF ANIMAL RESEARCH	2020	54(5), 608-613			0.395

29	EBGD	Nagar, S; Talwar, C; Haider, S; Puri, A; Ponnusamy, K; Gupta, M; Sood, U; Bajaj, A; Lal, R; Kumar, R	Phylogenetic Relationships and Potential Functional Attributes of the GenusParapedobacter: A Member of FamilySphingobacteriaceae	FRONTIERS IN MICROBIOLOGY	2020	11	1725		4.235
30	EBGD	Bajaj, A; Purohit, HJ	Understanding SARS-CoV-2: Genetic Diversity, Transmission and Cure in Human	INDIAN JOURNAL OF MICROBIOLOGY	2020	60(3), 398-401			1.83
31	EBGD	Tikariha, H; Purohit, HJ	Unfolding microbial community intelligence in aerobic and anaerobic biodegradation processes using metagenomics	ARCHIVES OF MICROBIOLOGY	2020	202(6), 1269-1274			1.884
32	EBGD	Dafale, NA; Srivastava, S; Purohit, HJ	Zoonosis: An Emerging Link to Antibiotic Resistance Under One Health Approach	INDIAN JOURNAL OF MICROBIOLOGY	2020	60(2), 139-152			1.83
33	EBGD	Singh, Ratan; Singh, Sanjeev Kumar; Rathore, Dheeraj	Analysis of biosurfactants produced by bacteria growing on textile sludge and their toxicity evaluation for environmental application	JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY	2020	41(4), 510-522		MAR 2019	1.701
34	EBGD	Nazirkar, Amol; Wagh, Mayuresh; Qureshi, Asifa; Bodade, Ragini; Kutty, Razia	Development of tracking tool for p-nitrophenol monooxygenase genes from soil augmented with p-Nitrophenol degrading isolates: Bacillus, Pseudomonas and Arthrobacter	BIOREMEDIATION JOURNAL	2020	24(1), 71-79		OCT 2019	1.724
35	EBGD	Srivastava, Shweta; Dafale, Nishant A.; Purohit, Hemant J.	Functional genomics assessment of lytic polysaccharide mono-oxygenase with glycoside hydrolases in Paenibacillus dendritiformis CRN18	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	2020	164, 3729-3738			5.162
36	EBGD DRC	Memon, H; Lanjewar, K; Dafale, N; Kapley, A	Immobilization of Microbial Consortia on Natural Matrix for Bioremediation of Wastewaters	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH	2020	14(4), 403-413			2.007
37	EBGD WTMD TDC DIR	Manjunatha, GS; Chavan, D; Lakshmikanthan, P; Singh, L; Kumar, S; Kumar, R	Specific heat and thermal conductivity of municipal solid waste and its effect on landfill fires	WASTE MANAGEMENT	2020	116, 120-130			5.448

38	EBGD TDC DIR	Sawarkar, AD; Shrimankar, DD; Kumar, A; Kumar, A; Singh, E; Singh, L; Kumar, S; Kumar, R	Commercial clustering of sustainable bamboo species in India	INDUSTRIAL CROPS AND PRODUCTS	2020	154	112693		4.244
39	EBGD TDC DIR	Singh, Lal; Sridharan, Srinidhi; Thul, Sanjog T.; Kokate, Piyush; Kumar, Phani; Kumar, Sunil; Kumar, Rakesh	Eco-rejuvenation of degraded land by microbe assisted bamboo plantation	INDUSTRIAL CROPS AND PRODUCTS	2020	155	112795		4.244
40	EISD	Divyapriya, G; Nidheesh, PV	Importance of Graphene in the Electro-Fenton Process	ACS OMEGA	2020	5(10), 4725-4732			2.87
41	EISD	Antony, J; Niveditha, SV; Gandhimathi, R; Ramesh, ST; Nidheesh, PV	Stabilized landfill leachate treatment by zero valent aluminium-acid system combined with hydrogen peroxide and persulfate based advanced oxidation process	WASTE MANAGEMENT	2020	106			5.448
42	EISD	Scaria, J; Nidheesh, PV; Kumar, MS	Synthesis and applications of various bimetallic nanomaterials in water and wastewater treatment	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2020	259	110011		5.647
43	EISD	Nidheesh, PV; Babu, DS; Dasgupta, B; Behara, P; Ramasamy, B; Kumar, MS	Treatment of Arsenite-Contaminated Water by Electrochemical Advanced Oxidation Processes	CHEMELECTROCHEM	2020	7(11), 2418-2423			4.154
44	EISD	Akansha, J; Nidheesh, PV; Gopinath, A; Anupama, KV; Kumar, MS	Treatment of dairy industry wastewater by combined aerated electrocoagulation and phytoremediation process	CHEMOSPHERE	2020	253	126652		5.778
45	EISD	Nidheesh, PV; Kumar, A; Babu, DS; Scaria, J; Kumar, MS	Treatment of mixed industrial wastewater by electrocoagulation and indirect electrochemical oxidation	CHEMOSPHERE	2020	251	126437		5.778
46	EISD	Sravanth, T.; Ramesh, S. T.; Gandhimathi, R.; Nidheesh, P., V	Continuous treatability of oily wastewater from locomotive wash facilities by electrocoagulation	SEPARATION SCIENCE AND TECHNOLOGY	2020	55(3), 583-589			1.718
47	EISD	Pramod, L.; Gandhimathi, R.; Lavanya, Addagada; Ramesh, S. T.; Nidheesh, P. V.	Heterogeneous Fenton process coupled with microfiltration for the treatment of water with higher arsenic content	CHEMICAL ENGINEERING COMMUNICATIONS	2020	207(12), 1646-1657		OCT 2019	1.802

48	EISD	Babu, D. Syam; Singh, T. S. Anantha; Nidheesh, P. V.; Kumar, M. Suresh	Industrial wastewater treatment by electrocoagulation process	SEPARATION SCIENCE AND TECHNOLOGY	2020	55(17), 3195-3227		OCT 2019	1.718
49	EISD	Preethi, Vijayaraghavan; Ramesh, Srikrishnaperumal Thanga; Gandhimathi, Rajan; Nidheesh, Puthiya Veetil	Optimization of batch electrocoagulation process using Box-Behnken experimental design for the treatment of crude vegetable oil refinery wastewater	JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY	2020	41(4), 592-599		APR 2019	1.701
50	EISD	Joy, Alphonsa C.; Gandhimathi, R.; Niveditha, S. V.; Ramesh, S. T.; Nidheesh, P. V.	Photoelectro-peroxone process for the degradation of reactive azo dye in aqueous solution	SEPARATION SCIENCE AND TECHNOLOGY	2020	55(14), 2550-2559		JUN 2019	1.718
51	EISD CTMD	Babu, DS; Kadaverugu, R; Nidheesh, PV; Kumar, MS	Importance of Chloride Addition on Arsenite Removal by Aluminium Electrocoagulation	CHEMISTRYSELECT	2020	5(34), 10567-10573			1.811
52	EMD	Sharma, MD; Elanjickal, AI; Mankar, JS; Krupadam, RJ	Assessment of cancer risk of microplastics enriched with polycyclic aromatic hydrocarbons	JOURNAL OF HAZARDOUS MATERIALS	2020	398	122994		9.038
53	EMD	Munawar, H; Mankar, JS; Sharma, MD; Garcia-Cruz, A; Fernandes, LAL; Peacock, M; Krupadam, RJ	Highly selective electrochemical nanofilm sensor for detection of carcinogenic PAHs in environmental samples	TALANTA	2020	219	121273		5.339
54	EMD	Mankar, JS; Sharma, MD; Rayalu, SS; Krupadam, RJ	Molecularly imprinted microparticles (microMIPs) embedded with reduced graphene oxide for capture and destruction of E. coli in drinking water	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2020	110	110672		5.88
55	EMD	Mankar, JS; Sharma, MD; Krupadam, RJ	Molecularly imprinted nanoparticles (nanoMIPs): an efficient new adsorbent for removal of arsenic from water	JOURNAL OF MATERIALS SCIENCE	2020	55(16), 6810-6825			3.553
56	EMD	Chakraborty, S; Goswami, S; Maity, AC; Quah, CK; Halder, S	One Step Synthesis of New Cocrystals of Chloropterin and 5-Deazapterin-6-carboxylic Acid Perchlorate Salts	JOURNAL OF CHEMICAL CRYSTALLOGRAPHY	2020	50(2), 164-169			0.589
57	EMD	Chakraborty, Shampa; Mandal, Moumi; Rayalu, Sadhana	Detection of iron (III) by chemo and fluoro-sensing technology	INORGANIC CHEMISTRY COMMUNICATIONS	2020	121	108189		1.943

58	EMD	Kotkondawar, Abhay Vijay; Rayalu, Sadhana	Enhanced H-2 production from dehydrogenation of sodium borohydride over the ternary Co0.97Pt0.03/CeOx nanocomposite grown on CGO catalytic support	RSC ADVANCES	2020	10(63), 38184-38195			3.119
59	EMD	Ahmed, Sehba Anjum Mumtaz; Jidnyasa, Nagarkar; Krupadam, Reddithota J.; Hippargi, Girivyankatesh; Prabhu, Y. Taraka; Pal, Ujjwal; Rayalu, Sadhana S.; Nagababu, Penumaka	Improved heterogeneous catalytic conversion of methane to methanol at ambient conditions	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	2020	8(5)	104103		4.3
60	EMD BDU ERMD	Jadhav, AS; Amrani, MA; Singh, SK; Al-Fatesh, AS; Bansiwal, A; Srikanth, VVSS; Labhasetwar, NK	gamma-FeOOH and gamma-FeOOH decorated multi-layer graphene: Potential materials for selenium(VI) removal from water	JOURNAL OF WATER PROCESS ENGINEERING	2020	37	101396		3.465
61	EMD ERMD	Valechha, A; Singh, SK; Al-Fatesh, AS; Rayalu, S; Labhsetwar, N	Sterically hindered amine functionalized zeolites prepared from fly ash for effective carbon dioxide adsorption	CURRENT SCIENCE	2020	119(1), 123-128			0.725
62	EMD EISD	Chakraborty, S; Ravindran, V; Nidheesh, PV; Rayalu, S	Optical Sensing of Copper and Its Removal by Different Environmental Technologies	CHEMISTRYSELECT	2020	5(34), 10432-10474			1.811
63	ERMD	Kumar, M; Kumar, A; Anshul, A; Sharma, S	Advances and future challenges in multifunctional nanostructures for their role in fast, energy efficient memory devices	MATERIALS LETTERS	2020	277	128369		3.204
64	ERMD	Kumar, M; Raj, A; Kumar, A; Anshul, A	An optimized lead-free formamidinium Sn -based perovskite solar cell design for high power conversion efficiency by SCAPS simulation	OPTICAL MATERIALS	2020	108	110213		2.779
65	ERMD	Kumar, M; Shankar, S; Kumar, A; Anshul, A; Jayasimhadri, M; Thakur, OP	Progress in multiferroic and magnetoelectric materials: applications, opportunities and challenges	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS				OCT 2020	2.22

66	ERMD	Anshul, A; Kumar, M; Raj, A	Raman and photoluminescence spectral studies in double perovskite epitaxial Nd 2 CoMnO 6 thin films deposited by pulse laser deposition	OPTIK	2020	212	164749		2.18
67	ERMD	Raj, A; Kumar, M; Mishra, D; Anshul, A	Raman and photoluminescence spectral studies in epitaxial Bi2NiMnO6 double perovskite thin-film samples	OPTICAL MATERIALS	2020	101	109773		2.779
68	ERMD	Uppara, HP; Pasuparthy, JS; Pradhan, S; Singh, SK; Labhsetwar, NK; Dasari, H	The comparative experimental investigations of SrMn(Co3+/Co2+)O-3 +/-delta and SrMn(Cu2+)O-3 +/-delta perovskites towards soot oxidation activity	MOLECULAR CATALYSIS	2020	482	110665		3.687
69	ERMD	Sarve, Dayaram Tulsiram; Singh, Sunit Kumar; Ekhe, Jayant D.	Kinetic and mechanistic study of ethanol dehydration to diethyl ether over Ni-ZSM-5 in a closed batch reactor	REACTION KINETICS MECHANISMS AND CATALYSIS	2020	131(1), 261-281		SEP 2020	1.52
70	ERMD DRC DZC	Wathore, Roshan; Gupta, Ankit; Bherwani, Hemant; Labhasetwar, Nitin	Understanding air and water borne transmission and survival of coronavirus: Insights and way forward for SARS-CoV-2	SCIENCE OF THE TOTAL ENVIRONMENT	2020	749	141486		6.551
71	ERMD DRC DZC TDC	Anshul, A; Moinuddin, AA; Azad, AM; Khera, P; Dehariya, K; Bherwani, H; Gupta, A; Kumar, S	Morphologically designed micro porous zeolite-geopolymers as cool coating materials	JOURNAL OF HAZARDOUS MATERIALS	2020	398	123022		9.038
72	EVC	Yadav, R; Rajput, V; Gohil, K; Khairnar, K; Dharne, M	Comprehensive metagenomic insights into a unique mass gathering and bathing event reveals transient influence on a riverine ecosystem	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	2020	202	110938		4.872
73	EVC	Samson, R; Rajput, V; Shah, M; Yadav, R; Sarode, P; Dastager, SG; Dharne, MS; Khairnar, K	Deciphering taxonomic and functional diversity of fungi as potential bioindicators within confluence stretch of Ganges and Yamuna Rivers, impacted by anthropogenic activities	CHEMOSPHERE	2020	252	126507		5.778

74	HTC	Etchie, AT; Etchie, TO; Elemile, OO; Boladale, O; Oni, T; Akanno, I; Bankole, DT; Ibitoye, OO; Pillarisetti, A; Sivanesan, S; Afolabi, TY; Krishnamurthi, K; Swaminathan, N	Burn to kill: Wood ash a silent killer in Africa	SCIENCE OF THE TOTAL ENVIRONMENT	2020	748	141316		6.551
75	HTC	Sahasrabuddhe, AV; Pitale, SU; Sivanesan, SD; Deshpande, PK; Deshpande, SP; Daiwile, A	Pathogenic gene expression of epicardial adipose tissue in patients with coronary artery disease	INDIAN JOURNAL OF MEDICAL RESEARCH	2020	151(6), 554-561			1.503
76	HTC EISD	Tiwari, J; Gandhi, D; Sivanesan, S; Naoghare, P; Bafana, A	Remediation of different nitroaromatic pollutants by a promising agent of Cupriavidus sp. strain a3	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	2020	205	111138		4.872
77	HZC	Soundarya, G; Manigundan, K; Meganathan, PR; Gomathi, S; Balaji, S; Jerrine, J; Radhakrishnan, M	Antimicrobial and anti-tubercular potential of Streptomyces lomondensis SACC 63 isolated from soil samples in Himachal Pradesh, India	JOURNAL OF ENVIRONMENTAL BIOLOGY	2020	41(1), 131-138			0.781
78	HZC	Vignesh, A; Manigundan, K; Santhoshkumar, J; Shanmugasundaram, T; Gopikrishnan, V; Radhakrishnan, M; Joseph, J; Ayyasamy, PM; Kumar, GD; Meganathan, R; Balagurunathan, R	Microbial degradation, spectral analysis and toxicological assessment of malachite green by Streptomyces chrestomyceticus S20	BIOPROCESS AND BIOSYSTEMS ENGINEERING	2020	43(8), 1457-1468			2.419
79	KZC	Pariyar, P; Kumari, K; Jain, MK; Jadhao, PS	Evaluation of change in biochar properties derived from different feedstock and pyrolysis temperature for environmental and agricultural application	SCIENCE OF THE TOTAL ENVIRONMENT	2020	713	136433		6.551

80	KZC	Ghosh, S; Sar, P	Microcosm based analysis of arsenic release potential of Bacillus sp. strain IIIJ3-1 under varying redox conditions	WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY	2020	36(6)	87		2.477
81	KZC	Majumdar, D; Chatterjee, S	Modelling Accumulation of Respiratory-CO2 in Closed Rooms Leading to Decision-Making on Room Occupancy	MAPAN-JOURNAL OF METROLOGY SOCIETY OF INDIA	2020	35(3), 323-332			1.033
82	KZC	Ghosh, S; Mohapatra, B; Satyanarayana, T; Sar, P	Molecular and taxonomic characterization of arsenic (As) transformingBacillussp. strain IIIJ3-1 isolated from As-contaminated groundwater of Brahmaputra river basin, India	BMC MICROBIOLOGY	2020	20	256		2.989
83	KZC	Roy, S; Majumdar, S; Sahoo, GC; Bhowmick, S; Kundu, AK; Mondal, P	Removal of As(V), Cr(VI) and Cu(II) using novel amine functionalized composite nanofiltration membranes fabricated on ceramic tubular substrate	JOURNAL OF HAZARDOUS MATERIALS	2020	399	122841		9.038
84	KZC APC	Majumdar, D; Purohit, P; Bhanarkar, AD; Rao, PS; Rafaj, P; Amann, M; Sander, R; Pakrashi, A; Srivastava, A	Managing future air quality in megacities: Emission inventory and scenario analysis for the Kolkata Metropolitan City, India	ATMOSPHERIC ENVIRONMENT	2020	222	117135		4.039
85	MZC	Sunayana; Kalawapudi, Komal; Dube, Ojaswikrishna; Sharma, Renuka	Use of neural networks and spatial interpolation to predict groundwater quality	ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY	2020	22(4), 2801-2816			2.191
86	MZC C-SUM DIR	Kalawapudi, K; Singh, T; Dey, J; Vijay, R; Kumar, R	Noise pollution in Mumbai Metropolitan Region (MMR): An emerging environmental threat	ENVIRONMENTAL MONITORING AND ASSESSMENT	2020	192(2)	152		1.903
87	MZC C-SUM DIR	Amrit, Kumar; Soni, Arti Roshan; Sunayana; Mishra, Surendra Kumar; Vijay, Ritesh; Kumar, Rakesh	Assessment of frequency and severity of droughts in Maharashtra state of India	ARABIAN JOURNAL OF GEOSCIENCES	2020	13(24)	1294		1.327
88	MZC C-SUM DIR	Patwa, Aakash; Parde, Divyesh; Dohare, Devendra; Vijay, Ritesh; Kumar, Rakesh	Solid waste characterization and treatment technologies in rural areas: An Indian and international review	ENVIRONMENTAL TECHNOLOGY & INNOVATION	2020	20	101066		3.356

89	Others	Ahmad, Shamshad; Chaudhary, Shalini; Pathak, Vinayak V.; Kothari, Richa; Tyagi, V. V.	Optimization of direct transesterification of Chlorella pyrenoidosa catalyzed by waste egg shell based heterogenous nano - CaO catalyst	RENEWABLE ENERGY	2020	160, 86-97			6.274
90	SHWMD	Malik, SN; Ghosh, PC; Vaidya, AN; Mudliar, SN	Hybrid ozonation process for industrial wastewater treatment: Principles and applications: A review	JOURNAL OF WATER PROCESS ENGINEERING	2020	35	101193		1.496
91	SHWMD	Malik, SN; Ghosh, PC; Vaidya, AN; Mudliar, SN	Ozone pretreatment of biomethanated distillery wastewater in a semi batch reactor: mapping pretreatment efficiency in terms of COD, color, toxicity and biohydrogen generation	BIOFUELS-UK	2020	11(7), 801-809			3.465
92	SHWMD	Malik, Sameena N.; Madhu, Krishna; Mhaisalkar, Vasant A.; Vaidya, Atul N.; Mudliar, Sandeep N.	Pretreatment of yard waste using advanced oxidation processes for enhanced biogas production	BIOMASS & BIOENERGY	2020	142	105780		3.551
93	TDC	Narmadha, VV; Jose, J; Patil, S; Farooqui, MO; Srimuruganandam, B; Saravanadevi, S; Krishnamurthi, K	Assessment of Microplastics in Roadside Suspended Dust from Urban and Rural Environment of Nagpur, India	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH	2020	14(6), 629-640			2.007
94	TDC	Arya, S; Kumar, S	Bioleaching: urban mining option to curb the menace of E-waste challenge	BIOENGINEERED	2020	11(1), 640-660			2.205
95	TDC	Awasthi, SK; Sarsaiya, S; Awasthi, MK; Liu, T; Zhao, JC; Kumar, S; Zhang, ZQ	Changes in global trends in food waste composting: Research challenges and opportunities	BIORESOURCE TECHNOLOGY	2020	299	122555		7.539
96	TDC	Negi, S; Mandpe, A; Hussain, A; Kumar, S	Collegial effect of maggots larvae and garbage enzyme in rapid composting of food waste with wheat straw or biomass waste	JOURNAL OF CLEANER PRODUCTION	2020	258	120854		7.246
97	TDC	Singh, E; Kumar, A; Khapre, A; Saikia, P; Shukla, SK; Kumar, S	Efficient removal of arsenic using plastic waste char: Prevailing mechanism and sorption performance	JOURNAL OF WATER PROCESS ENGINEERING	2020	33	101095		3.465

98	TDC	Arya, S; Kumar, S	E-waste in India at a glance: Current trends, regulations, challenges and management strategies	JOURNAL OF CLEANER PRODUCTION	2020	271	122707		7.246
99	TDC	Mudhoo, A; Paliya, S; Goswami, P; Singh, M; Lofrano, G; Carotenuto, M; Carraturo, F; Libralato, G; Guida, M; Usman, M; Kumar, S	Fabrication, functionalization and performance of doped photocatalysts for dye degradation and mineralization: a review	ENVIRONMENTAL CHEMISTRY LETTERS	2020	18(6), 1825-1903			5.922
100	TDC	Katakojwala, R; Kopperi, H; Kumar, S; Mohan, SV	Hydrothermal liquefaction of biogenic municipal solid waste under reduced H 2 atmosphere in biorefinery format	BIORESOURCE TECHNOLOGY	2020	310	123369		7.539
101	TDC	Anburajan, P; Pugazhendhi, A; Park, JH; Kumar, G; Kumar, S; Lee, BD; Kim, SH	Impact of 5-hydroxy methyl furfural on continuous hydrogen production from galactose and glucose feedstock with periodic recovery	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2020	45(38), 19045-19051			4.939
102	TDC	Sukumaran, RK; Rodriguez, SB; Dong, CD; Lee, KT; Kumar, S	Preface new horizons in biotechnology - NHBT 2019	BIORESOURCE TECHNOLOGY	2020	313	123774		7.539
103	TDC	Wainaina, S; Awasthi, MK; Sarsaiya, S; Chen, HY; Singh, E; Kumar, A; Ravindran, B; Awasthi, SK; Liu, T; Duan, YM; Kumar, S; Zhang, ZQ; Taherzadeh, MJ	Resource recovery and circular economy from organic solid waste using aerobic and anaerobic digestion technologies	BIORESOURCE TECHNOLOGY	2020	301	122778		7.539
104	TDC	Kumar, A; Singh, E; Khapre, A; Bordoloi, N; Kumar, S	Sorption of volatile organic compounds on non-activated biochar	BIORESOURCE TECHNOLOGY	2020	297	122469		7.539
105	TDC	Duan, YM; Awasthi, SK; Liu, T; Pandey, A; Zhang, ZQ; Kumar, S; Awasthi, MK	Succession of keratin-degrading bacteria and associated health risks during pig manure composting	JOURNAL OF CLEANER PRODUCTION	2020	258	120624		7.246

106	TDC	Rani, A; Negi, S; Hussain, A; Kumar, S	Treatment of urban municipal landfill leachate utilizing garbage enzyme	BIORESOURCE TECHNOLOGY	2020	297	122437		7.539
107	TDC	Chandrasekhar, K; Kumar, S; Lee, BD; Kim, SH	Waste based hydrogen production for circular bioeconomy: Current status and future directions	BIORESOURCE TECHNOLOGY	2020	302	122920		7.539
108	TDC DIR	Dhote, L; Mandpe, A; Paliya, S; Kumar, S; Pandey, R; Kumar, R	Characterization of distillery sludge for its thermal properties and ascertaining its utilization as a low-cost fuel	JOURNAL OF CLEANER PRODUCTION	2020	259	120872		7.246
109	TDC DIR	Tiwari, SK; Giri, BS; Thivaharan, V; Srivastava, AK; Kumar, S; Singh, RP; Kumar, R; Singh, RS	Sequestration of simulated carbon dioxide (CO2) using churning cementations waste and fly-ash in a thermo-stable batch reactor (TSBR)	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2020	27(22), 27470-27479			3.056
110	TDC EBGD DIR	Rena; Bin Zacharia, KM; Yadav, S; Machhirake, NP; Kim, SH; Lee, BD; Jeong, H; Singh, L; Kumar, S; Kumar, R	Bio-hydrogen and bio-methane potential analysis for production of bio-hythane using various agricultural residues	BIORESOURCE TECHNOLOGY	2020	309	123297		7.539
111	TDC EBGD	Awasthi, MK; Ravindran, B; Sarsaiya, S; Chen, HY; Wainaina, S; Singh, E; Liu, T; Kumar, S; Pandey, A; Singh, L; Zhang, ZQ	Metagenomics for taxonomy profiling: tools and approaches	BIOENGINEERED	2020	11(1), 356-374			2.205
112	WTMD	Kachhawaha, AS; Nagarnaik, PM; Labhasetwar, P; Banerjee, K	A Review of Recently Developed LC-MS/MS Methods for the Analysis of Pharmaceuticals and Personal Care Products in Water	JOURNAL OF AOAC INTERNATIONAL	2020	103(1), 9-22			1.51
113	WTMD	Gedam, VV; Labhasetwar, PK; Engelsen, CJ	CCR characterization and valorization as mineral additives during cement production in India	INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION	2020	40(8), 524-538			2.034

114	WTMD	Trivedi, S; Prasad, R; Mishra, A; Kalam, A; Yadav, P	Current scenario of CNG vehicular pollution and their possible abatement technologies: an overview	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2020	27(32), 39977-40000			3.056
115	WTMD	Janipella, R; Quamar, R; Sanam, R; Jangam, C; Pandurang; Balwant; Jyothi, V; Padmakar, C; Pujari, PR	Evaluation of Groundwater Vulnerability to Pollution using GIS Based DRASTIC Method in Koradi, India - A Case Study	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	2020	96(3), 292-297			0.899
116	WTMD	Quamar, R; Mishra, AK; Janipella, R; Pujari, PR; Padmakar, C; Balwant, P; Dhyani, S; Deshpande, L; Verma, P; Jyothi, V	Integrated Hydrogeological and Hydrochemical Studies in an Agri-horticulture Intensive Watershed at Narkhed, Nagpur, Maharashtra and Pandhurna, Chindwara, Madhya Pradesh-A Case Study from Central India	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	2020	96(1), 91-100			0.899
117	WTMD	Zurba, M; Stucker, D; Mwaura, G; Burlando, C; Rastogi, A; Dhyani, S; Koss, R	Intergenerational Dialogue, Collaboration, Learning, and Decision-Making in Global Environmental Governance: The Case of the IUCN Intergenerational Partnership for Sustainability	SUSTAINABILITY	2020	12(2)	498		2.576
118	WTMD	Bivins, A; Lowry, S; Murphy, HM; Borchardt, M; Coyte, R; Labhasetwar, P; Brown, J	Waterborne pathogen monitoring in Jaipur, India reveals potential microbial risks of urban groundwater supply	NPJ CLEAN WATER	2020	3(1)	35		4.87
119	WTMD	Rathi, Shweta; Gupta, Rajesh; Labhasetwar, Pawan; Nagarnaik, Pranav	Challenges in calibration of water distribution network: a case study of Ramnagar Elevated Service Reservoir command area in Nagpur City, India	WATER SUPPLY	2020	20(4), 1294-1312			0.9
120	WTMD AID	Thakur, S; Dhyani, S; Bramhanwade, K; Pandey, KK; Bokade, N; Janipella, R; Pujari, P	Non-invasive biomonitoring of mercury in birds near thermal power plants: lessons from Maharashtra, India	ENVIRONMENTAL MONITORING AND ASSESSMENT	2020	192(4)	260		1.903

121	WTMD DIR	Pujari, PR; Jain, V; Singh, V; Sreelash, K; Dhyani, S; Nema, M; Verma, P; Kumar, R; Jain, S; Sekhar, M	Critical zone: an emerging research area for sustainability	CURRENT SCIENCE	2020	118(10), 1487-1488			0.725
122	WTMD TDC	Manjunatha, GS; Chavan, D; Lakshmikanthan, P; Swamy, R; Kumar, S	Estimation of heat generation and consequent temperature rise from nutrients like carbohydrates, proteins and fats in municipal solid waste landfills in India	SCIENCE OF THE TOTAL ENVIRONMENT	2020	707	135610		6.551
123	WTMD CTMD	Dhyani, S; Bartlett, D; Kadaverugu, R; Dasgupta, R; Pujari, P; Verma, P	Integrated climate sensitive restoration framework for transformative changes to sustainable land restoration	RESTORATION ECOLOGY	2020	28(5), 1026-1031		SEP 2020	2.721
124	WTMD CTMD	Dhyani, S; Kadaverugu, R; Pujari, P	Predicting impacts of climate variability on Banj oak (Quercus leucotrichophoraA. Camus) forests: understanding future implications for Central Himalayas	REGIONAL ENVIRONMENTAL CHANGE	2020	20(4)	113		3.481
125	WWTD	Bernard, Kameni Ngounou M.; Bobde, Prakash, V; Sylvere, Ndi K.; Patrice, Kofa G.; Joseph, Kayem G.; Pal, Sukdeb	Effect of Grewia spp. biopolymer on floc properties of coagulated laterite suspension	DESALINATION AND WATER TREATMENT	2020	185, 132-144			0.854
126	WWTD EMD BDU	Kaur, H; Dahake, R; Maddigapu, PR; Hippargi, G; Pophali, GR; Bansiwal, A	Enhanced photocatalytic degradation of antimicrobial triclosan using rGO-TiO2 composite under natural solar illumination	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020	31(8), 6045-6058			2.22
								Total IF	452.3