

SL No	Authors	Title	Year	Source title	Vol	Issue	Art. No.	DOI	Document Type
1	Debnath B.; Duarah P.; Haldar D.; Purkait M.K.	Improving the properties of corn starch films for application as packaging material via reinforcement with microcrystalline cellulose synthesized from elephant grass	2022	Food Packaging and Shelf Life	34		100937	10.1016/j.fpsl.2022.100937	Article
2	Bag S.S.; De S.; Bhuyan S.	Intramolecular cyclization of isothiocyanyl amino acids/peptide: arrival at unnatural thioxoimidazolidinyl/thioxooxazolidinyl amino acids	2022	Amino Acids	54	11		10.1007/s00726-022-03186-w	Article
3	Kabiraj D.; Chetia H.; Nath A.; Sharma P.; Mosahari P.V.; Singh D.; Dutta P.; Neog K.; Bora U.	Mitogenome-wise codon usage pattern from comparative analysis of the first mitogenome of Blepharipa sp. (Muga uzifly) with other Oestroid flies	2022	Scientific Reports	12	1	7028	10.1038/s41598-022-10547-8	Article
4	Saha B.; Koley S.; Khwairakpam M.; Kalamdhad A.S.	Comparative study between mono-digestion and co-digestion of terrestrial weed (Parthenium hysterophorus)	2022	Cleaner Engineering and Technology	11		100560	10.1016/j.clet.2022.100560	Article
5	Samanta N.S.; Das P.P.; Mondal P.; Changmai M.; Purkait M.K.	Critical review on the synthesis and advancement of industrial and biomass waste-based zeolites and their applications in gas adsorption and biomedical studies	2022	Journal of the Indian Chemical Society	99	11	100761	10.1016/j.jics.2022.100761	Review
6	Bhattacharjee D.; Raina K.; Mandal T.K.; Thummer R.P.; Bhabak K.P.	Targeting Wnt/ β -catenin signaling pathway in triple-negative breast cancer by benzylic organotrissulfides: Contribution of the released hydrogen sulfide towards potent anti-cancer activity	2022	Free Radical Biology and Medicine	191			10.1016/j.freeradbiomed.2022.08.029	Article
7	Patel A.; Paul S.; Akhtar N.; Das S.; Kar S.; Bhattacharjee S.; Manna D.	Onium- and Alkyl Amine-Decorated Protein Nanoparticles as Antimicrobial Agents and Carriers of Antibiotics to Promote Synergistic Antibacterial and Antibiofilm Activities	2022	ACS Applied Nano Materials	5	11		10.1021/acsnm.2c03665	Article

8	Rathod U.H.; Bhaduri R.	Avifaunal diversity in Indian Institute of Technology Guwahati Campus, Assam, India	2022	Journal of Threatened Taxa	14	12	10.11609/jott.8010.14.12.22293-22308	Article
9	Shree B.; Jayakrishnan U.; Bhushan S.	Impact of key parameters involved with plant-microbe interaction in context to global climate change	2022	Frontiers in Microbiology	13		10.3389/fmicb.2022.1008451	Review
10	Mallik R.; Khannam M.; Saha M.; Marandi S.; Kumar S.; Mukherjee C.	The electrostatic confinement of aquated monocationic Gd(iii) complex-molecules within the inner core of porous silica nanoparticles creates a highly efficient T1 contrast agent for magnetic resonance imaging	2022	Dalton Transactions	51	37	10.1039/d2dt02272a	Article
11	Negi R.; Kumar R.; Jawed M.	Recovery potential of aerobic sludge biomass from Co (II) stress in sequencing batch reactors	2022	Environmental Science and Pollution Research	29	41	10.1007/s11356-022-19965-7	Article
12	Debnath B.; Haldar D.; Purkait M.K.	Environmental remediation by tea waste and its derivative products: A review on present status and technological advancements	2022	Chemosphere	300		10.1016/j.chemosphere.2022.134480	Review
13	Ghosh D.; Basak M.; Deka D.; Das G.	Fabrication and photophysical assessment of quinoxaline based chemosensor: Selective determination of picric acid in hydrogel and aqueous medium	2022	Journal of Molecular Liquids	363		10.1016/j.molliq.2022.119816	Article
14	Bhattacharjee T.; Rahman S.; Deka D.; Purkait M.K.; Chowdhury D.; Majumdar G.	Synthesis and characterization of exfoliated beta-cyclodextrin functionalized graphene oxide for adsorptive removal of atenolol	2022	Materials Chemistry and Physics	288		10.1016/j.matchemphys.2022.126413	Article
15	Vinodhkumar B.; Jose A.M.; Rao K.K.; Osuri K.K.; Bhaduri R.; Dimri A.P.	Future precipitation extremes over base Himalayan Uttarakhand region: analysis using the statistically downscaled, bias-corrected high-resolution NEX-GDDP datasets	2022	Theoretical and Applied Climatology	149	###	10.1007/s00704-022-04111-7	Article

16	Dey S.; Sen P.; Patel A.; Prusty B.M.; Ghosh S.S.; Manna D.	A photo-responsive fluorescent amphiphile for target-specific and image-guided drug delivery applications	2022	Organic and Biomolecular Chemistry	20	39		10.1039/d2ob01332k	Article
17	Santra S.; Maharana D.; Kotecha P.; Banerjee T.	Process Simulation and Multiobjective Optimization for High-Purity Hexane Recovery Using Deep Eutectic Solvent	2022	Industrial and Engineering Chemistry Research	61	37		10.1021/acs.iecr.2c01028	Article
18	Ravula R.; Bhabak K.P.; Mandal T.K.	User-friendly point of care test device for detection of arsenic in potable water: Prototype, design, and artifact	2022	Asia-Pacific Journal of Chemical Engineering	17	5	e2815	10.1002/apj.2815	Article
19	Prakash R.; Sangtam B.T.; Hembrom K.; Majumder S.K.	Bubble size analysis in a two-phase countercurrent flow in the narrow rectangular column	2022	Physics of Fluids	34	4	43305	10.1063/5.0083749	Article
20	Aktar J.; Ray M.	Iron-polyphenol nanomaterial removes fluoride and methylene blue dye from water and promotes plant growth	2022	Journal of Environmental Chemical Engineering	10	3	107707	10.1016/j.jece.2022.107707	Article
21	Rakshit K.; Rakshit R.	Study of 28th April, 2021 Mw 6.0 Assam earthquake in a part of eastern Himalayan foreland region, northeast India	2022	Environmental Earth Sciences	81	14	368	10.1007/s12665-022-10496-5	Article
22	Gupta M.K.; Chiranjivi A.K.; Dutta T.; Dubey V.K.; Rangan L.	Synthesis and characterization of zinc derivatized 3, 5-dihydroxy 4', 7-dimethoxyflavone and its anti leishmaniasis activity against Leishmania donovani	2022	BioMetals	35	2		10.1007/s10534-022-00364-x	Article
23	Haldar D.; Purkait M.K.	Thermochemical pretreatment enhanced bioconversion of elephant grass (Pennisetum purpureum): insight on the production of sugars and lignin	2022	Biomass Conversion and Biorefinery	12	4		10.1007/s13399-020-00689-y	Article
24	Sufian A.; Bhattacharjee D.; Barman P.; Srivastava A.; Thummer R.P.; Bhabak K.P.	Stimuli-responsive prodrug of non-steroidal anti-inflammatory drug diclofenac: self-immolative drug release with turn-on near-infrared fluorescence	2022	Chemical Communications	58	56		10.1039/d2cc02132c	Article

25	Prakash R.; Hembrom K.; Majumder S.K.	Interpretation of induction time and particle recovery in a microstructured counter-current flow column	2022	Chemical Engineering and Processing - Process Intensification	176		108931	10.1016/j.cep.2022.108931	Article
26	Banerjee K.; Bhattacharjee D.; Raina K.; Thummer R.P.; Bhabak K.P.	Benzimidazole-based ionic and non-ionic organoselenium compounds: innovative synthetic strategies, structural characterization and preliminary anti-proliferative activities	2022	New Journal of Chemistry	46	24		10.1039/d2nj01322c	Article
27	Duarah P.; Haldar D.; Patel A.K.; Dong C.-D.; Singhania R.R.; Purkait M.K.	A review on global perspectives of sustainable development in bioenergy generation	2022	Bioresource Technology	348		126791	10.1016/j.biortech.2022.126791	Review
28	Dash S.R.; Bag S.S.; Golder A.K.	Carbon Dots Derived from Waste Psidium Guajava Leaves for Electrocatalytic Sensing of Chlorpyrifos	2022	Electroanalysis	34	7		10.1002/elan.202100344	Article
29	Kumar M.; Srivastava V.; Mazumder P.; Deka J.P.; Gupta S.; Goswami R.; Mutiyar P.K.; Dave S.; Mahanta C.; Ramanathan A.L.; Joshi M.	Spectre of SARS-CoV-2 RNA in the ambient urban waters of Ahmedabad and Guwahati: A tale of two Indian cities	2022	Environmental Research	204		112067	10.1016/j.envres.2021.112067	Article
30	SONOWAL S.; NAVA A.R.; JOSHI S.J.; BORAH S.N.; ISLAM N.F.; PANDIT S.; PRASAD R.; SARMA H.	Biosurfactant-assisted phytoremediation of potentially toxic elements in soil: Green technology for meeting the United Nations Sustainable Development Goals	2022	Pedosphere	32	1		10.1016/S1002-0160(21)60067-X	Conference paper
31	Dutta T.; Ray M.	Site orientation, accessibility, and surface hydrophobicity control on AFC polymer to increase hexavalent chromium removal performance	2022	Chemical Engineering Journal	431		133368	10.1016/j.cej.2021.133368	Article
32	Datta P.; Tiwari P.; Pandey L.M.	Experimental investigation on suitability of Surfactin for enhanced oil recovery: Stability, adsorption equilibrium and kinetics studies	2022	Journal of Environmental Chemical Engineering	10	1	107083	10.1016/j.jece.2021.107083	Article

33	Horo H.; Saha M.; Das H.; Mandal B.; Kundu L.M.	Synthesis of highly fluorescent, amine-functionalized carbon dots from biotin-modified chitosan and silk-fibroin blend for target-specific delivery of antitumor agents	2022	Carbohydrate Polymers	277		118862	10.1016/j.carbpol.2021.118862	Article
34	Swaminathan N.; Priyanka P.; Rathore A.S.; Sivaprakasam S.; Subbiah S.	Cole-Cole modeling of real-time capacitance data for estimation of cell physiological properties in recombinant Escherichia coli cultivation	2022	Biotechnology and Bioengineering	119	3		10.1002/bit.28028	Article
35	Sharma S.; Verma R.; Dhull S.; Maiti S.K.; Pandey L.M.	Biodegradation of waste cooking oil and simultaneous production of rhamnolipid biosurfactant by Pseudomonas aeruginosa P7815 in batch and fed-batch bioreactor	2022	Bioprocess and Biosystems Engineering	45	2		10.1007/s00449-021-02661-0	Article
36	Mahato S.K.; Bhattacharjee D.; Barman P.; Bhabak K.P.	Thioredoxin reductase-triggered fluorogenic donor of hydrogen sulfide: a model study with a symmetrical organopolysulfide probe with turn-on near-infrared fluorescent emission	2022	Journal of Materials Chemistry B	10	13		10.1039/d1tb02425f	Article
37	Bose P.; Mukherjee C.; Kumar Golder A.	Electrochemical conversion of CO ₂ to C ₂ oxygenates on Pb(II)-salen catalysts-coated graphite electrodes: Role of salen ligand and appended ligand-substituents to the production	2022	Chemical Engineering Journal	431		134092	10.1016/j.cej.2021.134092	Article
38	Ghosh A.; Orasugh J.T.; Chattopadhyay D.; Ghosh S.	Electrospun nanofibres: A new vista for detection and degradation of harmful endocrine-disrupting chemicals	2022	Groundwater for Sustainable Development	16		100716	10.1016/j.gsd.2021.100716	Review
39	Ghosh A.; Das G.	Strategies to Improve Sensitivity and Selectivity of MOF-based Sensors	2022	Metal-Organic Frameworks-Based Hybrid Materials for Environmental Sensing and Monitoring				10.1201/9781003188148-8	Book chapter

40	Mandal J.; Bhaduri R.; Sharma N.	The Struggle of Existence for Scavenging Greater Adjutants <i>Leptoptilos dubius</i>	2022	Imperiled: The Encyclopedia of Conservation: Volume 1-3	###			10.1016/B978-0-12-821139-7.00229-4	Book chapter
41	Kumar R.; Saini G.K.; Jawed M.	Impact of emerging contaminants on biological wastewater treatment process	2022	Relationship Between Microbes and the Environment for Sustainable Ecosystem Services, Volume 2: Microbial Mitigation of Waste for Sustainable Ecosystem Services	5			10.1016/B978-0-323-89937-6.00014-0	Book chapter
42	Addy R.; Kalamdhad A.; Goud V.V.	Insight on the prevalence of pathogens present in the municipal solid waste of sanitary landfills, dumpsites, and leachate	2022	Fate of Biological Contaminants During Recycling of Organic Wastes				10.1016/B978-0-323-95998-8.00006-6	Book chapter
43	Kouam Ida T.; Mandal B.	Microbial fuel cell design, application and performance: A review	2022	Materials Today: Proceedings	76			10.1016/j.matpr.2022.10.131	Conference paper
44	Duarah P.; Haldar D.; Purkait M.K.	Potential of MOF-based novel adsorbents for the removal of aquatic pollutants	2022	Advanced Materials for Sustainable Environmental Remediation: Terrestrial and Aquatic Environments				10.1016/B978-0-323-90485-8.00010-2	Book chapter
45	Mondal P.; Purkait M.K.	Green Synthesized Iron-based Nanomaterials: Applications and Potential Risks	2022	Green Synthesized Iron-based Nanomaterials: Applications and Potential Risks				10.1201/9781003243632	Book

46	Jayakrishnan U.; Ghosh D.; Deka D.; Das G.	Effect of sludge retention time and feeding strategy on polyhydroxybutyrate production from rice mill effluent using activated sludge	2022	Biomass Conversion and Biorefinery				10.1007/s13399-022-03321-3	Article
47	Haldar D.; Duarah P.; Purkait M.K.	Progress in the synthesis and applications of polymeric nanomaterials derived from waste lignocellulosic biomass	2022	Advanced Materials for Sustainable Environmental Remediation: Terrestrial and Aquatic Environments				10.1016/B978-0-323-90485-8.00006-0	Book chapter
48	Tomar S.K.; Kumar R.; Chakraborty S.	Simultaneous biodegradation of pyridine, indole, and ammonium along with phenol and thiocyanate by aerobic granular sludge	2022	Journal of Hazardous Materials	422		126861	10.1016/j.jhazmat.2021.126861	Article
49	Deshavath N.N.; Goswami L.; Mogili N.V.; Dutta M.; Kushwaha A.; Veeranki V.D.; Goud V.V.	Role of lignocellulosic bioethanol in the transportation sector: limitations and advancements in bioethanol production from lignocellulosic biomass	2022	Waste-to-Energy Approaches Towards Zero Waste: Interdisciplinary Methods of Controlling Waste				10.1016/B978-0-323-85387-3.00010-0	Book chapter
50	Patel P.K.; Nagireddi S.; Uppaluri R.V.S.; Pandey L.M.	Batch adsorption characteristics of Dowex Marathon MSA commercial resin for Au(III) removal from synthetic electroless plating solutions	2022	Materials Today: Proceedings	68			10.1016/j.matpr.2022.06.258	Article
51	Samanta N.S.; Das P.P.; Mondal P.; Bora U.; Purkait M.K.	Physico-chemical and adsorption study of hydrothermally treated zeolite A and FAU-type zeolite X prepared from LD (Linz–Donawitz) slag of the steel industry	2022	International Journal of Environmental Analytical Chemistry				10.1080/03067319.2022.2079082	Article
52	Hussain C.M.; Singh S.; Goswami L.	Waste-to-Energy Approaches Towards Zero Waste: Interdisciplinary Methods of Controlling Waste	2022	Waste-to-Energy Approaches Towards Zero Waste: Interdisciplinary Methods of Controlling Waste				10.1016/C2020-0-02334-0	Book

53	Ghosh S.; Bhattacharjee D.; Satpati P.; Bhabak K.P.	Venetoclax: a promising repurposed drug against SARS-CoV-2 main protease	2022	Journal of Biomolecular Structure and Dynamics	40	22		10.1080/07391102.2021.1967786	Article
54	Deepti; Bora U.; Purkait M.K.	Promising integrated technique for the treatment of highly saline nanofiltration rejected stream of steel industry	2021	Journal of Environmental Management	300		113781	10.1016/j.jenvman.2021.113781	Article
55	Sathyan A.; Haq I.; Kalamdhad A.S.; Khwaraikpam M.	Recent advancements in anaerobic digestion: A Novel approche for waste to energy	2022	Advanced Organic Waste Management: Sustainable Practices and Approaches				10.1016/B978-0-323-85792-5.00017-4	Book chapter
56	Fahad M.K.; Prakash R.; Majumder S.K.; Ghosh P.	Investigation of the induction time and recovery in a flotation column: A kinetic analysis	2022	Separation Science and Technology (Philadelphia)	57	18		10.1080/01496395.2022.2084629	Article
57	Borah S.N.; Koch N.; Sen S.; Prasad R.; Sarma H.	Novel nanomaterials for nanobioremediation of polyaromatic hydrocarbons	2022	Emerging Contaminants in the Environment: Challenges and Sustainable Practices				10.1016/B978-0-323-85160-2.00024-X	Book chapter
58	Deshavath N.N.; Goud V.V.; Veeranki V.D.	Commercialization of 2G bioethanol as a transportation fuel for the sustainable energy, environment, and economic growth of India: theoretical and empirical assessment of bioethanol potential from agriculture crop residues	2022	Biomass Conversion and Biorefinery				10.1007/s13399-022-03039-2	Article
59	Duarah P.; Haldar D.; Yadav V.S.K.; Purkait M.K.	Progress in the electrochemical reduction of CO ₂ to formic acid: A review on current trends and future prospects	2021	Journal of Environmental Chemical Engineering	9	6	106394	10.1016/j.jece.2021.106394	Review

60	Debnath B.; Haldar D.; Purkait M.K.	Potential and sustainable utilization of tea waste: A review on present status and future trends	2021	Journal of Environmental Chemical Engineering	9	5	106179	10.1016/j.jece.2021.106179	Review
61	Bag S.S.; Bora A.; Golder A.K.	Turning wastes into value-added materials: Polystyrene nanocomposites (PS-AgNPs) from waste thermocol and green synthesized silver nanoparticles for water disinfection application	2021	Polymer Composites	42	11		10.1002/p.c.26287	Article
62	Mazumder P.; Das A.; Khwairakpam M.; Kalamdhad A.S.	A comprehensive insight into ecological risk assessment and remediation of metal contaminated coal mine soil: Towards a cleaner and sustainable environment	2021	Journal of Cleaner Production	324		129185	10.1016/j.jclepro.2021.129185	Article
63	Borah S.N.; Goswami L.; Sen S.; Sachan D.; Sarma H.; Montes M.; Peralta-Videa J.R.; Pakshirajan K.; Narayan M.	Selenite bioreduction and biosynthesis of selenium nanoparticles by <i>Bacillus paramycoides</i> SP3 isolated from coal mine overburden leachate	2021	Environmental Pollution	285		117519	10.1016/j.envpol.2021.117519	Article
64	Bag S.S.; Gogoi H.; Sinha S.	Synthesis and studies on the photophysical/biophysical properties of triazolylfluorene-labeled 2'-deoxyuridines	2021	Tetrahedron Letters	86		153494	10.1016/j.tetlet.2021.153494	Article
65	Dutta J.; Thakur D.	Diversity of culturable bacteria endowed with antifungal metabolites biosynthetic characteristics associated with tea rhizosphere soil of Assam, India	2021	BMC Microbiology	21	1	216	10.1186/s12866-021-02278-z	Article
66	Debnath B.; Haldar D.; Purkait M.K.	A critical review on the techniques used for the synthesis and applications of crystalline cellulose derived from agricultural wastes and forest residues	2021	Carbohydrate Polymers	273		118537	10.1016/j.carbpol.2021.118537	Review
67	Paul D.; Sachan D.; De S.; Das G.	Modulation of the CaCO ₃ phase and morphology by tuning the sequence of addition: an insight into the formation of monohydrocalcite	2021	New Journal of Chemistry	45	39		10.1039/d1nj03707b	Article

68	Verma R.; Kundu L.M.; Pandey L.M.	Enhanced melanoidin removal by amine-modified <i>Phyllanthus emblica</i> leaf powder	2021	Bioresource Technology	339		125572	10.1016/j.biortech.2021.125572	Article
69	Jayakrishnan U.; Deka D.; Das G.	Waste as feedstock for polyhydroxyalkanoate production from activated sludge: Implications of aerobic dynamic feeding and acidogenic fermentation	2021	Journal of Environmental Chemical Engineering	9	4	105550	10.1016/j.jece.2021.105550	Article
70	Ghosh A.; Das G.	Facile synthesis of Sn(II)-MOF using waste PET bottles as an organic precursor and its derivative SnO ₂ NPs: Role of surface charge reversal in adsorption of toxic ions	2021	Journal of Environmental Chemical Engineering	9	4	105288	10.1016/j.jece.2021.105288	Article
71	Dash S.R.; Bag S.S.; Golder A.K.	Bio-inspired PtNPs/Graphene nanocomposite based electrocatalytic sensing of metabolites of dipyrone	2021	Analytica Chimica Acta	###		338562	10.1016/j.aca.2021.338562	Article
72	Sen S.; Borah S.N.; Sarma H.; Bora A.; Deka S.	Utilization of distillers dried grains with solubles as a cheaper substrate for sophorolipid production by <i>Rhodotorula babjevae</i> YS3	2021	Journal of Environmental Chemical Engineering	9	4	105494	10.1016/j.jece.2021.105494	Article
73	Samanta N.S.; Banerjee S.; Mondal P.; Anweshan; Bora U.; Purkait M.K.	Preparation and characterization of zeolite from waste Linz-Donawitz (LD) process slag of steel industry for removal of Fe ³⁺ from drinking water	2021	Advanced Powder Technology	32	9		10.1016/j.appt.2021.07.023	Article
74	Gopi Kiran M.; Das R.; Behera S.K.; Pakshirajan K.; Das G.	Modelling a rotating biological contactor treating heavy metal contaminated wastewater using artificial neural network	2021	Water Supply	21	5		10.2166/w.s.2020.304	Article
75	Ghosh S.; Chakraborty S.	Aerobic granulation of single strain oil degraders: Salt tolerance enhancing organics and nitrogen removal from high-strength refinery wastewater	2021	Journal of Water Process Engineering	42		102104	10.1016/j.jwpe.2021.102104	Article
76	Nandi M.; Kanaujiya D.K.; Pakshirajan K.; Paul T.; Pugazhenth G.; Baskaran D.	Biodegradation of benzyl butyl phthalate and dibutyl phthalate by <i>Arthrobacter</i> sp. via micellar solubilization in a surfactant-aided system	2021	Water Supply	21	5		10.2166/w.s.2020.347	Article

77	Deshavath N.N.; Goud V.V.; Veeranki V.D.	Curtailling citrate buffer inhibition effect on <i>S. cerevisiae</i> to enhance the fermentability of cellulosic hydrolysate	2021	Journal of Environmental Chemical Engineering	9	4	105696	10.1016/j.jece.2021.105696	Article
78	Kainthola J.; Shariq M.; Kalamdhad A.S.; Goud V.V.	Comparative study of different thermal pretreatment techniques for accelerated methane production from rice straw	2021	Biomass Conversion and Biorefinery	11	4		10.1007/s13399-019-00537-8	Article
79	Kashyap N.; Moholkar V.S.	Intensification of pyrene degradation by native <i>Candida tropicalis</i> MTCC 184 with sonication: Kinetic and mechanistic investigation	2021	Chemical Engineering and Processing - Process Intensification	164		108415	10.1016/j.cep.2021.108415	Article
80	Mazumder P.; PM A.; Jyoti; Khwaitrakpam M.; Mishra U.; Kalamdhad A.S.	Enhancement of soil physico-chemical properties post compost application: Optimization using Response Surface Methodology comprehending Central Composite Design	2021	Journal of Environmental Management	289		112461	10.1016/j.jenvman.2021.112461	Article
81	Mazumder P.; Kalamdhad A.; Chaminda G.T.; Kumar M.	Coalescence of co-infection and antimicrobial resistance with SARS-CoV-2 infection: The blues of post-COVID-19 world	2021	Case Studies in Chemical and Environmental Engineering	3		100093	10.1016/j.cscee.2021.100093	Article
82	Jayakrishnan U.; Deka D.; Das G.	Regulation of volatile fatty acid accumulation from waste: Effect of inoculum pretreatment	2021	Water Environment Research	93	7		10.1002/wer.1490	Article
83	Sufian A.; Bhattacharjee D.; Mishra T.; Bhabak K.P.	Peroxide-responsive boronate ester-coupled turn-on fluorogenic probes: Direct linkers supersede self-immolative linkers for sensing peroxides	2021	Dyes and Pigments	191		109363	10.1016/j.dyepig.2021.109363	Article
84	Mazumder P.; Jyoti; Khwaitrakpam M.; Kalamdhad A.S.	Metal resistant bacteria in animal manure induces bacterial resistance to antibiotics: Their co-occurrence in compost, soil and water	2021	Integrated Approaches Towards Solid Waste Management				10.1007/978-3-030-70463-6_3	Book chapter
85	Ghosh A.; Das G.	Environmentally benign synthesis of fluorescent carbon nanodots using waste PET bottles: Highly selective and sensitive detection of Pb ²⁺ ions in aqueous medium	2021	New Journal of Chemistry	45	19		10.1039/d1nj00961c	Article

86	Saha B.; Barua V.B.; Vrindra G.; Kalamdhad A.S.; Khwairakpam M.	Biochemical methane potential and kinetics of Parthenium hysterophorous with different food to microorganisms (F/M) ratios	2021	Integrated Approaches Towards Solid Waste Management				10.1007/978-3-030-70463-6_27	Book chapter
87	Borah S.N.; Sen S.; Sarma H.; Pakshirajan K.	Biological Remediation of Selenium in Soil and Water	2021	Handbook of Assisted and Amendment-Enhanced Sustainable Remediation Technology				10.1002/9781119670391.ch20	Book chapter
88	Patel A.; Dey S.; Shokeen K.; Karpiński T.M.; Sivaprakasam S.; Kumar S.; Manna D.	Sulfonium-based liposome-encapsulated antibiotics deliver a synergistic antibacterial activity	2021	RSC Medicinal Chemistry	12	6		10.1039/d1md00091h	Article
89	Sarangapany S.; Mohanty K.	Facile Green Synthesis of Ag@g-C3N4 for Enhanced Photocatalytic and Catalytic Degradation of Organic Pollutant	2021	Journal of Cluster Science	32	3		10.1007/s10876-020-01816-5	Article
90	Paul D.; Sachan D.; Das G.	Silver nanoparticles embedded on in-vitro biomineralized vaterite: A highly efficient catalyst with enhanced catalytic activity towards 4-Nitrophenol reduction	2021	Molecular Catalysis	504		111433	10.1016/j.mcat.2021.111433	Article
91	Sinha R.; Roy N.; Rajasekhar R.; Karnawat A.; Mandal T.K.	N-doped carbon dot from cigarette-tobacco: Picric acid sensing in real water sample and synthesis of CD-MWCNT nano-composite for UV-photodetection	2021	Journal of Environmental Chemical Engineering	9	1	104971	10.1016/j.jece.2020.104971	Article
92	Deshavath N.N.; Goud V.V.; Veeranki V.D.	Liquefaction of lignocellulosic biomass through biochemical conversion pathway: A strategic approach to achieve an industrial titer of bioethanol	2021	Fuel	287		119545	10.1016/j.fuel.2020.119545	Article
93	Sarangapany S.; Mohanty K.	A facile biogenic-mediated synthesis of Ag nanoparticles over anchored ZnO for enhanced photocatalytic degradation of organic dyes	2021	Photocatalytic Degradation of Dyes: Current Trends and Future Perspectives				10.1016/B978-0-12-823876-9.00018-4	Book chapter

94	Dey S.; Chatterjee S.; Patel A.; Pradhan N.; Srivastava D.; Patra N.; Bhattacharyya A.; Manna D.	Photoresponsive transformation from spherical to nanotubular assemblies: Anticancer drug delivery using macrocyclic cationic gemini amphiphiles	2021	Chemical Communications	57	38	10.1039/d1cc01468d	Article
95	Yadav V.S.; Saxena V.; Pandey L.M.	Fiber reinforced nano composites: Mechanical and biological aspects for biomedical applications	2021	Fiber-Reinforced Polymer: Processes and Applications				Book chapter
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