Ponnusamy Senthil Kumar

List of Publications by Year
in descending order

589 papers	23,527 citations	11908 72 h-index	18944 123 g-index
599 all docs	599 docs citations	599 times ranked	15401 citing authors

#	Article	IF	Citations
1	Microbial electrolysis cells and microbial fuel cells for biohydrogen production: current advances and emerging challenges. Biomass Conversion and Biorefinery, 2023, 13, 8403-8423.	2.9	24
2	Effective removal of naphthalene from contaminated soil using halotolerant bacterial strains and vermiremediation techniques. International Journal of Environmental Analytical Chemistry, 2023, 103, 761-778.	1.8	7
3	An efficient lab-scale soil bioreactor for the removal of chromium (Cr) and arsenic (As) contaminated soil using co-culture. International Journal of Environmental Analytical Chemistry, 2023, 103, 2318-2337.	1.8	1
4	Digital colorimetric analysis for estimation of iron in water with smartphone-assisted microfluidic paper-based analytical devices. International Journal of Environmental Analytical Chemistry, 2023, 103, 2480-2497.	1.8	6
5	Heterostructured two dimensional materials of MXene and graphene by hydrothermal method for efficient hydrogen production and HER activities. International Journal of Hydrogen Energy, 2023, 48, 6478-6487.	3.8	15
6	Hydrogen Generation from CO2 Reforming of Biomass-Derived Methanol on Ni/SiO2 Catalyst. Topics in Catalysis, 2023, 66, 41-52.	1.3	1
7	Separation of manganese from water using hybrid nanocomposite to control water pollution: kinetic and equilibrium modelling. International Journal of Environmental Analytical Chemistry, 2022, 102, 7684-7699.	1.8	9
8	Water quality analysis in a lake using deep learning methodology: prediction and validation. International Journal of Environmental Analytical Chemistry, 2022, 102, 5641-5656.	1.8	9
9	Cleaner production on electrochemical removal of sulphonamide from wastewater using three-dimensional electrode system: characterisation and kinetics. International Journal of Environmental Analytical Chemistry, 2022, 102, 5584-5600.	1.8	4
10	Potential of nanoscale size zero valent iron nanoparticles impregnated activated carbon prepared from palm kernel shell for cadmium removal to avoid water pollution. International Journal of Environmental Analytical Chemistry, 2022, 102, 7224-7240.	1.8	7
11	Enhancement of lactic acid production from food waste through simultaneous saccharification and fermentation using selective microbial strains. Biomass Conversion and Biorefinery, 2022, 12, 5947-5958.	2.9	8
12	Adsorption of copper ions from polluted water using biochar derived from waste renewable resources: static and dynamic analysis. International Journal of Environmental Analytical Chemistry, 2022, 102, 4067-4088.	1.8	10
13	Adsorption of Pb(II) and Cd(II) ions onto modified biogenic slaughterhouse waste: equilibrium and kinetic analysis. International Journal of Environmental Analytical Chemistry, 2022, 102, 4344-4363.	1.8	7
14	Adsorptive behaviour of surface tailored fungal biomass for the elimination of toxic dye from wastewater. International Journal of Environmental Analytical Chemistry, 2022, 102, 4710-4725.	1.8	10
15	Green synthesis of copper nanoparticles using Sesbania aculeata to enhance the plant growth and antimicrobial activities. International Journal of Environmental Science and Technology, 2022, 19, 1313-1322.	1.8	21
16	Recent advances in biotransformation of <scp>5â€Hydroxymethylfurfural</scp>: challenges and future aspects. Journal of Chemical Technology and Biotechnology, 2022, 97, 409-419.	1.6	33
17	Surfactantâ€aided mycoremediation of soil contaminated with polycyclic aromatic hydrocarbon (<scp>PAHs</scp>): progress, limitation, and countermeasures. Journal of Chemical Technology and Biotechnology, 2022, 97, 391-408.	1.6	29
18	Effect of physiological and morphological response of Musa acuminata under stress condition with different salinity levels using IoT. International Journal of Environmental Science and Technology, 2022, 19, 5227-5238.	1.8	3

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19	Adsorption of ciprofloxacin from aqueous solution using surface improved tamarind shell as an economical and effective adsorbent. International Journal of Phytoremediation, 2022, 24, 224-234.	1.7	9
20	Numerical study of fluid flow and heat transfer for flow of Cu-Al2O3-water hybrid nanofluid in a microchannel heat sink. Materials Today: Proceedings, 2022, 49, 1298-1302.	0.9	14
21	Hydrothermal Synthesis of Flower Like MnSe2@MoSe2 Electrode for Supercapacitor Applications. Topics in Catalysis, 2022, 65, 615-622.	1.3	14
22	Cost effective and facile low temperature hydrothermal fabrication of Cu2S thin films for hydrogen evolution reaction in seawater splitting. International Journal of Hydrogen Energy, 2022, 47, 30819-30829.	3.8	11
23	A review on bioconversion processes for hydrogen production from agro-industrial residues. International Journal of Hydrogen Energy, 2022, 47, 37302-37320.	3.8	32
24	Automated weed detection system in smart farming for developing sustainable agriculture. International Journal of Environmental Science and Technology, 2022, 19, 9083-9094.	1.8	14
25	Recent advances in carbon nitride-based nanomaterials for hydrogen production and storage. International Journal of Hydrogen Energy, 2022, 47, 37490-37516.	3.8	11
26	Electrochemical energy storage and conversion applications of CoSn(OH)6 materials. International Journal of Hydrogen Energy, 2022, 47, 41948-41955.	3.8	3
27	Two-dimensional hybrid perovskite solar cells: a review. Environmental Chemistry Letters, 2022, 20, 189-210.	8.3	10
28	Agricultural waste materials for adsorptive removal of phenols, chromium (VI) and cadmium (II) from wastewater: A review. Environmental Research, 2022, 204, 111916.	3.7	90
29	Sustainable approaches for removing Rhodamine B dye using agricultural waste adsorbents: A review. Chemosphere, 2022, 287, 132080.	4.2	156
30	Target-receptive structural switching of ssDNA as selective and sensitive biosensor for subsequent detection of toxic Pb2+ and organophosphorus pesticide. Chemosphere, 2022, 287, 132163.	4.2	12
31	Understanding the factors affecting adsorption of pharmaceuticals on different adsorbents â€“ A critical literature update. Chemosphere, 2022, 287, 131958.	4.2	23
32	Elimination of rhodamine B from textile wastewater using nanoparticle photocatalysts: A review for sustainable approaches. Chemosphere, 2022, 287, 132162.	4.2	95
33	Current advances in microbial fuel cell technology toward removal of organic contaminants â€“ A review. Chemosphere, 2022, 287, 132186.	4.2	39
34	A review on recent advancements in recovery of valuable and toxic metals from e-waste using bioleaching approach. Chemosphere, 2022, 287, 132230.	4.2	68
35	Feasibility of magnetic nano adsorbent impregnated with activated carbon from animal bone waste: Application for the chromium (VI) removal. Environmental Research, 2022, 203, 111813.	3.7	38
36	Microalgae biomass as a sustainable source for biofuel, biochemical and biobased value-added products: An integrated biorefinery concept. Fuel, 2022, 307, 121782.	3.4	190

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37	Acetaminophen degradation using bacterial strains isolated from winogradsky column and phytotoxicity analysis of dump site soil. Chemosphere, 2022, 286, 131570.	4.2	4
38	Facile single-step synthesis of MXene@CNTs hybrid nanocomposite by CVD method to remove hazardous pollutants. Chemosphere, 2022, 286, 131733.	4.2	46
39	Rapid removal of chloramphenicol via the synergy of Geobacter and metal oxide nanoparticles. Chemosphere, 2022, 286, 131943.	4.2	9
40	Flower like strontium molybdate for efficient energy conversion applications. Fuel, 2022, 308, 122051.	3.4	12
41	Highly crystalline cotton spinning wastes utilization: Pretreatment, optimized hydrolysis and fermentation using Pleurotus florida for bioethanol production. Fuel, 2022, 308, 122052.	3.4	17
42	Treatment of textile wastewater containing mixed toxic azo dye and chromium (VI) BY haloalkaliphilic bacterial consortium. Chemosphere, 2022, 287, 132280.	4.2	21
43	Biological approach in deinking of waste paper using bacterial cellulase as an effective enzyme catalyst. Chemosphere, 2022, 287, 132088.	4.2	12
44	Recent advancements in the removal/recovery of toxic metals from aquatic system using flotation techniques. Chemosphere, 2022, 287, 132231.	4.2	25
45	Characterization of biofilm formation and reduction of hexavalent chromium by bacteria isolated from tannery sludge. Chemosphere, 2022, 286, 131795.	4.2	17
46	Recent advancements in microbial fuel cells: A review on its electron transfer mechanisms, microbial community, types of substrates and design for bio-electrochemical treatment. Chemosphere, 2022, 286, 131856.	4.2	80
47	Application of a novel nanocomposite containing micro-nutrient solubilizing bacterial strains and CeO2 nanocomposite as bio-fertilizer. Chemosphere, 2022, 286, 131800.	4.2	17
48	A review on recent trends in the removal of emerging contaminants from aquatic environment using low-cost adsorbents. Chemosphere, 2022, 287, 132270.	4.2	118
49	Bioremediation of soil contaminated with toxic mixed reactive azo dyes by co-cultured cells of Enterobacter cloacae and Bacillus subtilis. Environmental Research, 2022, 204, 112136.	3.7	17
50	Alizarin-graphene nanocomposite for calibration-free and online pH monitoring of microbial fuel cell. Chemosphere, 2022, 287, 132277.	4.2	1
51	A case study of flood frequency analysis by intercomparison of graphical linear log-regression method and Gumbel's analytical method in the Vaigai river basin of Tamil Nadu, India. Chemosphere, 2022, 286, 131571.	4.2	8
52	Novel synthesis of fluorescent carbon dots from bio-based Carica Papaya Leaves: Optical and structural properties with antioxidant and anti-inflammatory activities. Environmental Research, 2022, 204, 111854.	3.7	42
53	Methods for chemical conversion of plastic wastesÂinto fuels and chemicals. A review. Environmental Chemistry Letters, 2022, 20, 223-242.	8.3	12
54	Pristine and cobalt doped copper sulfide microsphere particles for seawater splitting. International Journal of Hydrogen Energy, 2022, 47, 37171-37182.	3.8	11

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55	Recent advances and sustainable development of biofuels production from lignocellulosic biomass. Bioresource Technology, 2022, 344, 126203.	4.8	129
56	Nanoparticles approach to eradicate bacterial biofilm-related infections: A critical review. Chemosphere, 2022, 288, 132603.	4.2	21
57	Assessment of in vitro antimicrobial efficacy of biologically synthesized metal nanoparticles against pathogenic bacteria. Chemosphere, 2022, 291, 132676.	4.2	14
58	Progress in the production of hydrogen energy from food waste: A bibliometric analysis. International Journal of Hydrogen Energy, 2022, 47, 26326-26354.	3.8	33
59	Investigation of PEG directed Sb2WO6 for dyes removal from wastewater. Chemosphere, 2022, 291, 132677.	4.2	9
60	Valorization of agro-industrial wastes for biorefinery process and circular bioeconomy: A critical review. Bioresource Technology, 2022, 343, 126126.	4.8	111
61	Soil Bioremediation Techniques. , 2022, , 195-210.		0
62	Cellulase enzyme catalyst producing bacterial strains from vermicompost and its application in low-density polyethylene degradation. Chemosphere, 2022, 288, 132552.	4.2	9
63	A review on recent advancements in bioenergy production using microbial fuel cells. Chemosphere, 2022, 288, 132512.	4.2	59
64	Impact of compression ratio on combustion behavior of hydrogen enriched biogas-diesel operated CI engine. Fuel, 2022, 310, 122321.	3.4	18
65	A comprehensive insight from microalgae production process to characterization of biofuel for the sustainable energy. Fuel, 2022, 310, 122320.	3.4	37
66	A disposable modified screen-printed electrode using egg white/ZnO rice structured composite as practical tool electrochemical sensor for formaldehyde detection and its comparative electrochemical study with Chitosan/ZnO nanocomposite. Chemosphere, 2022, 288, 132560.	4.2	23
67	Hybrid metal organic frameworks as an Exotic material for the photocatalytic degradation of pollutants present in wastewater: A review. Chemosphere, 2022, 288, 132448.	4.2	46
68	Gadolinium doped CeO2 for efficient oxygen and hydrogen evolution reaction. Fuel, 2022, 310, 122319.	3.4	27
69	A review of recent progress on photocatalytic carbon dioxide reduction into sustainable energy products using carbon nitride. Chemical Engineering Research and Design, 2022, 177, 304-320.	2.7	14
70	Continuous electrodeionization on the removal of toxic pollutant from aqueous solution. Chemosphere, 2022, 291, 132808.	4.2	11
71	Sustainability assessment of third-generation biofuels. , 2022, , 523-534.		3
72	Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. Environmental Technology and Innovation, 2022, 25, 102114.	3.0	93

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73	Transformation of aqueous methyl orange to green metabolites using bacterial strains isolated from textile industry effluent. Environmental Technology and Innovation, 2022, 25, 102126.	3.0	16
74	Bioethanol from hydrolysate of ultrasonic processed robust microalgal biomass cultivated in dairy wastewater under optimal strategy. Energy, 2022, 244, 122604.	4.5	18
75	Cannabis: Chemistry, extraction and therapeutic applications. Chemosphere, 2022, 289, 133012.	4.2	45
76	Lab-on-a-chip technologies for food safety, processing, and packaging applications: a review. Environmental Chemistry Letters, 2022, 20, 901-927.	8.3	15
77	Extraction, purification and applications of biosurfactants based on microbial-derived glycolipids and lipopeptides: a review. Environmental Chemistry Letters, 2022, 20, 949-970.	8.3	19
78	Green technology for sustainable surface protection of steel from corrosion: a review. Environmental Chemistry Letters, 2022, 20, 929-947.	8.3	10
79	Sustainable approach on the biodegradation of azo dyes: A short review. Current Opinion in Green and Sustainable Chemistry, 2022, 33, 100578.	3.2	36
80	Recent Progression of Flower Like ZnSe@MoSe2 Designed as an Electrocatalyst for Enhanced Supercapacitor Performance. Topics in Catalysis, 2022, 65, 684-693.	1.3	9
81	V-Ag doped ZnO nanorod as high-performance electrode material for supercapacitors with enhanced specific capacitance and cycling stability. Chemical Engineering Research and Design, 2022, 178, 356-368.	2.7	12
82	Facile route for synthesis of Fe0/Fe3C/Î³-Fe2O3 carbon composite using hydrothermal carbonization of sugarcane bagasse and its use as effective adsorbent for sulfamethoxazole removal. Chemosphere, 2022, 289, 133214.	4.2	21
83	Identification and sequencing of bacteria from crop field: Application of bacteria â€"Âagro-waste biosorbent for rapid pesticide removal. Environmental Technology and Innovation, 2022, 25, 102116.	3.0	7
84	Synthesis and characterization of 4-Halobenzylidene malanonitriles for optical detection of Nickel (II) ions in aqueous solution. Chemosphere, 2022, 290, 133248.	4.2	11
85	A review on recent advances in electrodeionization for various environmental applications. Chemosphere, 2022, 289, 133223.	4.2	30
86	Promotion of methane production by magnetite via increasing acetogenesis revealed by metagenome-assembled genomes. Bioresource Technology, 2022, 345, 126521.	4.8	18
87	Sustainable strategy on microbial fuel cell to treat the wastewater for the production of green energy. Chemosphere, 2022, 290, 133295.	4.2	22
88	Bio-functionalized zinc oxide nanoparticles: Potential toxicity impact on freshwater fish Cyprinus carpio. Chemosphere, 2022, 290, 133220.	4.2	19
89	A recent advancement on nanomaterials for electrochemical sensing of sulfamethaoxole and its futuristic approach. Chemosphere, 2022, 290, 133115.	4.2	12
90	Remediation of emerging metal pollutants using environment friendly biochar- Review on applications and mechanism. Chemosphere, 2022, 290, 133384.	4.2	43

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91	A comprehensive review on sources, analysis and toxicity of environmental pollutants and its removal methods from water environment. Science of the Total Environment, 2022, 812, 152456.	3.9	53
92	Polyvinylpyrrolidone-assisted novel copper antimony sulfide nanorods for highly efficient hydrogen evolution reaction. Fuel, 2022, 314, 123096.	3.4	8
93	Recycled mesoporous magnetic composites with high surface area derived from plastic and de-oiled sludge wastes: An empirical comparison on their competitive performance for toxic Cr (VI) removal. Chemosphere, 2022, 292, 133375.	4.2	3
94	Removal of volatile organic carbon and heavy metols through microbial approach. , 2022, , 285-308.		0
95	Chemical, physical and biological methods to convert lignocellulosic waste into value-added products. A review. Environmental Chemistry Letters, 2022, 20, 1129-1152.	8.3	67
96	Green synthesis of ZrO2 nanoparticles and nanocomposites for biomedical and environmental applications: a review. Environmental Chemistry Letters, 2022, 20, 1309-1331.	8.3	77
97	Hydrothermal Carbonization of Waste Sugarcane Bagasse for the Effective Removal of Emerging Contaminants from Aqueous Solution. Adsorption Science and Technology, 2022, 2022, .	1.5	7
98	Tribological Properties of Carbon Nanotube and Carbon Nanofiber Blended Polyvinylidene Fluoride Sheets Laminated on Steel Substrates. International Journal of Chemical Engineering, 2022, 2022, 1-6.	1.4	4
99	Electrochemical Enhancement of Binary CuSe2@MoSe2 Composite Nanorods for Supercapacitor Application. Topics in Catalysis, 2022, 65, 668-676.	1.3	7
100	Invasive plants as biosorbents for environmental remediation: a review. Environmental Chemistry Letters, 2022, 20, 1421-1451.	8.3	39
101	Microalgae as a potential sustainable solution to environment health. Chemosphere, 2022, 295, 133740.	4.2	1
102	New analytical strategies amplified with carbon-based nanomaterial for sensing food pollutants. Chemosphere, 2022, 295, 133847.	4.2	11
103	Degradation of toxic agrochemicals and pharmaceutical pollutants: Effective and alternative approaches toward photocatalysis. Environmental Pollution, 2022, 298, 118844.	3.7	78
104	Paper-based microfluidic colorimetric sensor on a 3D printed support for quantitative detection of nitrite in aquatic environments. Environmental Research, 2022, 208, 112745.	3.7	15
105	Carbon nanomaterials and its applications in pharmaceuticals: A brief review. Chemosphere, 2022, 294, 133731.	4.2	28
106	The role of sodium dodecyl sulfate mediated hydrothermal synthesis of MoS2 nanosheets for photocatalytic dye degradation and dye-sensitized solar cell application. Chemosphere, 2022, 294, 133725.	4.2	25
107	Scheelite-type Fe substituted SrWO4 for hydrogen evolution reaction under alkaline conditions. Fuel, 2022, 316, 123309.	3.4	4
108	Analysis and prediction of water quality using deep learning and auto deep learning techniques. Science of the Total Environment, 2022, 821, 153311.	3.9	48

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109	Electrochemical sensing system for the analysis of emerging contaminants in aquatic environment: A review. Chemosphere, 2022, 294, 133779.	4.2	44
110	Bio-derived catalysts for production of biodiesel: A review on feedstock, oil extraction methodologies, reactors and lifecycle assessment of biodiesel. Fuel, 2022, 316, 123379.	3.4	58
111	A critical review on the two-stage biohythane production and its viability as a renewable fuel. Fuel, 2022, 317, 123449.	3.4	18
112	Si@MXene/graphene crumbled spherical nanocomposites. International Journal of Energy Research, 2022, 46, 21548-21557.	2.2	3
113	Advanced catalysts and effect of operating parameters in ethanol dry reforming for hydrogen generation. A review. Environmental Chemistry Letters, 2022, 20, 1695-1718.	8.3	15
114	A review on removal strategies of microorganisms from water environment using nanomaterials and their behavioural characteristics. Chemosphere, 2022, 295, 133915.	4.2	12
115	Facile preparation and characterization of MXene@Platinum nanocomposite for energy conversion applications. Fuel, 2022, 317, 123493.	3.4	13
116	Process amelioration for production of biohydrogen using mutated Rhodobacter M 19 and Enterobacter aerogenesco-culture: Influence of nanoparticles. Fuel, 2022, 317, 123558.	3.4	5
117	Applicability of bio-synthesized nanoparticles in fungal secondary metabolites products and plant extracts for eliminating antibiotic-resistant bacteria risks in non-clinical environments. Environmental Research, 2022, 209, 112831.	3.7	25
118	One-Step Fabrication of Amino-Functionalized Fe3O4@SiO2 Core-Shell Magnetic Nanoparticles as a Potential Novel Platform for Removal of Cadmium (II) from Aqueous Solution. Sustainability, 2022, 14, 2290.	1.6	9
119	Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media. Journal of Nanostructure in Chemistry, 2022, 12, 429-439.	5.3	171
120	Biocatalytic polymeric membranes to decrease biofilm fouling and remove organic contaminants in wastewater: a review. Environmental Chemistry Letters, 2022, 20, 1897-1927.	8.3	11
121	Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection. Food and Chemical Toxicology, 2022, 164, 112961.	1.8	231
122	A review on agro-based materials on the separation of environmental pollutants from water system. Chemical Engineering Research and Design, 2022, 181, 423-457.	2.7	8
123	A review on bioremediation approach for heavy metal detoxification and accumulation in plants. Environmental Pollution, 2022, 301, 119035.	3.7	169
124	Functionalization of MXene-based nanomaterials for the treatment of micropollutants in aquatic system: A review. Environmental Pollution, 2022, 301, 119034.	3.7	24
125	Mycoremediation of lignocellulosic biorefinery sludge: A reinvigorating approach for organic contaminants remediation with simultaneous production of lignocellulolytic enzyme cocktail. Bioresource Technology, 2022, 351, 127012.	4.8	5
126	Synthesis, Computational and cytotoxicity studies of aryl hydrazones of Î²-diketones: Selective Ni2+ metal Responsive fluorescent chemosensors. Chemosphere, 2022, 297, 134150.	4.2	10

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127	Visible light stimulated binary nanostructure and defect enriched TiO2-SnO2 for photocatalysis and antibacterial activity. Materials Letters, 2022, 316, 131998.	1.3	9
128	Bench scale production of methanol from crude glycerol (1,2,3-Propanetriol) using Zirconium loaded fluorine doped tin oxide. Fuel, 2022, 318, 123650.	3.4	2
129	Potential pre-treatment of lignocellulosic biomass for the enhancement of biomethane production through anaerobic digestion- A review. Fuel, 2022, 318, 123593.	3.4	27
130	Investigation on future perspectives of ex-situ biogenic methane generation from solid waste coal and coal washery rejects. Fuel, 2022, 318, 123497.	3.4	7
131	Detection and identification of hazardous organic pollutants from distillery wastewater by GC-MS analysis and its phytotoxicity and genotoxicity evaluation by using Allium cepa and Cicer arietinum L.. Chemosphere, 2022, 297, 134123.	4.2	14
132	Algal biofuels: Technological perspective on cultivation, fuel extraction and engineering genetic pathway for enhancing productivity. Fuel, 2022, 320, 123814.	3.4	14
133	Enhanced methane production by granular activated carbon: A review. Fuel, 2022, 320, 123903.	3.4	16
134	Advances in the application of immobilized enzyme for the remediation of hazardous pollutant: A review. Chemosphere, 2022, 299, 134390.	4.2	22
135	Development of lab-on-chip biosensor for the detection of toxic heavy metals: A review. Chemosphere, 2022, 299, 134427.	4.2	23
136	Insights on synthesis and applications of graphene-based materials in wastewater treatment: A review. Chemosphere, 2022, 298, 134284.	4.2	25
137	Advancements on sustainable microbial fuel cells and their future prospects: A review. Environmental Research, 2022, 210, 112930.	3.7	26
138	Removal of toxic heavy metals using genetically engineered microbes: Molecular tools, risk assessment and management strategies. Chemosphere, 2022, 298, 134341.	4.2	31
139	Facile hydrothermal synthesis of MXene@antimony nanoneedle composites for toxic pollutants removal. Environmental Research, 2022, 210, 112904.	3.7	11
140	Surfactant induced copper vanadate (Î²-Cu2V2O7, Cu3V2O8) for different textile dyes degradation. Environmental Research, 2022, 211, 112964.	3.7	6
141	Novel cobalt doped hafnium oxide/reduced graphene oxide nanosphere composite materials exhibit superior supercapacitor performance and long cyclic stability. Sustainable Energy Technologies and Assessments, 2022, 52, 102167.	1.7	4
142	Review on biopolymers and composites â€“ Evolving material as adsorbents in removal of environmental pollutants. Environmental Research, 2022, 212, 113114.	3.7	87
143	Halides and oxyhalides-based photocatalysts for abatement of organic water contaminants â€“ An overview. Environmental Research, 2022, 212, 113149.	3.7	12
144	Production of hydrogen and value-added carbon materials by catalytic methane decomposition: a review. Environmental Chemistry Letters, 2022, 20, 2339-2359.	8.3	23

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145	Recent review on electron transport layers in perovskite solar cells. International Journal of Energy Research, 2022, 46, 21441-21451.	2.2	24
146	A Preliminary Study on Detection of Serogenic E.coli in Fishes to Conduct a Microbial Assessment of Coastal Water. ECS Transactions, 2022, 107, 3863-3873.	0.3	0
147	Ultrasonic Functionalized Egg Shell Powder for the Adsorption of Cationic Dye: Equilibrium and Kinetic Studies. Adsorption Science and Technology, 2022, 2022, .	1.5	5
148	Static and dynamic analysis of sulfamethoxazole using GO/ZnO modified glassy carbon electrode by differential pulse voltammetry and amperometry techniques. Chemosphere, 2022, 302, 134926.	4.2	7
149	Prediction of bio-heat and mass transportation in radiative MHD Walter-B nanofluid using MANFIS model. Mathematics and Computers in Simulation, 2022, 201, 49-67.	2.4	6
150	Heat transfer effect of SiC-GN hybrid nanocomposite with viscoplastic fluid in aircraft jet engine hoses. Sustainable Energy Technologies and Assessments, 2022, 52, 102297.	1.7	1
151	Sodium alginate/magnetic hydrogel microspheres from sugarcane bagasse for removal of sulfamethoxazole from sewage water: Batch and column modeling. Environmental Pollution, 2022, 307, 119523.	3.7	12
152	Green synthesis of curcumin-silver nanoparticle and its modified electrode assisted amperometric sensor for the determination of paracetamol. Chemosphere, 2022, 303, 134994.	4.2	11
153	A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review. Chemosphere, 2022, 303, 135146.	4.2	110
154	Fabrication and characterization of magnetic nanomaterials for the removal of toxic pollutants from water environment: A review. Chemosphere, 2022, 303, 135067.	4.2	10
155	Microbial pullulan for food, biomedicine, cosmetic, and water treatment: a review. Environmental Chemistry Letters, 2022, 20, 3199-3234.	8.3	7
156	Extraction techniques in food industry: Insights into process parameters and their optimization. Food and Chemical Toxicology, 2022, 166, 113207.	1.8	8
157	Effective adsorption of crystal violet onto aromatic polyimides: Kinetics and isotherm studies. Chemosphere, 2022, 304, 135332.	4.2	14
158	Recent advances in electrochemical sensor developments for detecting emerging pollutant in water environment. Chemosphere, 2022, 304, 135331.	4.2	23
159	Laccase production by Pleurotus ostreatus using cassava waste and its application in remediation of phenolic and polycyclic aromatic hydrocarbon-contaminated lignocellulosic biorefinery wastewater. Environmental Pollution, 2022, 309, 119729.	3.7	10
160	Plant-mediated gold and silver nanoparticles as detectors of heavy metal contamination. Food and Chemical Toxicology, 2022, 167, 113271.	1.8	15
161	A review on synthesis methods and recent applications of nanomaterial in wastewater treatment: Challenges and future perspectives. Chemosphere, 2022, 307, 135713.	4.2	27
162	Engineering microbes for enhancing the degradation of environmental pollutants: A detailed review on synthetic biology. Environmental Research, 2022, 214, 113868.	3.7	13

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163	Biochar derived carbonaceous material for various environmental applications: Systematic review. Environmental Research, 2022, 214, 113857.	3.7	36
164	Conversion of waste plastics into low emissive hydrocarbon fuel using catalyst produced from biowaste. Environmental Science and Pollution Research, 2021, 28, 63638-63645.	2.7	9
165	Evaluation of mechanical, optical and thermal properties of PVA nanocomposites embedded with Fe2O3 nanofillers and the investigation of their thermal decomposition characteristics under non-isothermal heating condition. Polymer Bulletin, 2021, 78, 2191-2210.	1.7	17
166	Magnetite encapsulated alginates tailored material for the sustainable treatment of electroplating industrial wastewater: column dynamics and mass transfer studies. Clean Technologies and Environmental Policy, 2021, 23, 89-102.	2.1	2
167	A fuzzy cognitive map approach to predict the hazardous effects of malathion to environment (air,) Tj ETQq1 1 0.784314 rgBT /Overlock	4.2	25
168	Analysis and removal of pharmaceutical residues from wastewater using membrane bioreactors: a review. Environmental Chemistry Letters, 2021, 19, 329-343.	8.3	32
169	A review on biosynthesis of metal nanoparticles and its environmental applications. Chemosphere, 2021, 264, 128580.	4.2	227
170	Adsorptive separation of toxic metals from aquatic environment using agro waste biochar: Application in electroplating industrial wastewater. Chemosphere, 2021, 262, 128031.	4.2	77
171	A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives. International Journal of Hydrogen Energy, 2021, 46, 16734-16750.	3.8	63
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