

Guangming Zeng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,191
papers

91,869
citations

153
h-index

228
g-index

1,212
ext. papers

111,824
ext. citations

9.5
avg. IF

8.76
L-index

#	Paper	IF	Citations
1191	Impacts of typical engineering nanomaterials on the response of rhizobacteria communities and rice (<i>Oryza sativa</i> L.) growths in waterlogged antimony-contaminated soils.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128385	12.8	2
1190	Pyrite-mediated advanced oxidation processes: Applications, mechanisms, and enhancing strategies.. <i>Water Research</i> , 2022 , 211, 118048	12.5	3
1189	Investigation on the structure-performance of phthalic acid carboxyl position and carbon nitride towards efficient photocatalytic degradation of organic pollutants. <i>Separation and Purification Technology</i> , 2022 , 286, 120464	8.3	12
1188	Removal of chloride from water and wastewater: Removal mechanisms and recent trends.. <i>Science of the Total Environment</i> , 2022 , 821, 153174	10.2	2
1187	Core-shell structured nanoparticles for photodynamic therapy-based cancer treatment and related imaging. <i>Coordination Chemistry Reviews</i> , 2022 , 458, 214427	23.2	2
1186	Effects of oxytetracycline and zinc ion on nutrient removal and biomass production via microalgal culturing in anaerobic digester effluent.. <i>Bioresource Technology</i> , 2022 , 346, 126667	11	0
1185	Lignocellulosic biomass carbonization for biochar production and characterization of biochar reactivity. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 157, 112056	16.2	7
1184	Environmentally persistent free radicals in bismuth-based metal-organic layers derivatives: Photodegradation of pollutants and mechanism unravelling. <i>Chemical Engineering Journal</i> , 2022 , 430, 133026	14.7	4
1183	Self-assembly hybridization of COFs and g-CN: Decipher the charge transfer channel for enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 1051-1063	9.3	4
1182	Biofilm on microplastics in aqueous environment: Physicochemical properties and environmental implications. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127286	12.8	16
1181	Recent progress of noble metals with tailored features in catalytic oxidation for organic pollutants degradation. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126950	12.8	11
1180	The presence of cationic polyacrylamide attenuated the toxicity of polyvinyl chloride microplastics to anaerobic digestion of waste activated sludge. <i>Chemical Engineering Journal</i> , 2022 , 427, 131442	14.7	0
1179	A critical review of biochar-based materials for the remediation of heavy metal contaminated environment: Applications and practical evaluations. <i>Science of the Total Environment</i> , 2022 , 806, 150531	10.2	10
1178	Metal-organic framework-derived CuCo/carbon as an efficient magnetic heterogeneous catalyst for persulfate activation and ciprofloxacin degradation. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127196	12.8	12
1177	Versatile CMPs as platforms to support Ag nanocatalysts for nitrophenol hydrogenation in continuous flow-through process. <i>Chemical Engineering Journal</i> , 2022 , 136207	14.7	0
1176	Effects of biochar-based materials on the bioavailability of soil organic pollutants and their biological impacts.. <i>Science of the Total Environment</i> , 2022 , 826, 153956	10.2	0
1175	Construction of dual S-scheme Ag ₂ CO ₃ /Bi ₄ O ₅ I ₂ /g-C ₃ N ₄ heterostructure photocatalyst with enhanced visible-light photocatalytic degradation for tetracycline. <i>Chemical Engineering Journal</i> , 2022 , 438, 135471	14.7	5

1174	Enhancing hydrogen peroxide activation of CuCo layered double hydroxide by compositing with biochar: Performance and mechanism.. <i>Science of the Total Environment</i> , 2022 , 154188	10.2	1
1173	The role of microplastics in altering arsenic fractionation and microbial community structures in arsenic-contaminated riverine sediments.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128801	12.8	2
1172	Metal-organic frameworks as a good platform for the fabrication of multi-metal nanomaterials: design strategies, electrocatalytic applications and prospective.. <i>Advances in Colloid and Interface Science</i> , 2022 , 304, 102668	14.3	1
1171	Recent progress on mixed transition metal nanomaterials based on metalorganic frameworks for energy-related applications. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 9788-9820	13	2
1170	Biochar-based agricultural soil management: An application-dependent strategy for contributing to carbon neutrality. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 164, 112529	16.2	1
1169	Managing Fenton-treated sediment with biochar and sheep manure compost: Effects on the evolutionary characteristics of bacterial community.. <i>Journal of Environmental Management</i> , 2022 , 316, 115218	7.9	0
1168	Insight into disinfection byproduct formation potential of aged biochar and its effects during chlorination. <i>Journal of Environmental Management</i> , 2022 , 317, 115437	7.9	0
1167	Recent advances in impacts of microplastics on nitrogen cycling in the environment: A review.. <i>Science of the Total Environment</i> , 2021 , 815, 152740	10.2	2
1166	Dual Optimization Approach to Mo Single Atom Dispersed g-C3N4 Photocatalyst: Morphology and Defect Evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 303, 120904	21.8	38
1165	Analysis of South American climate and teleconnection indices. <i>Journal of Contaminant Hydrology</i> , 2021 , 244, 103915	3.9	
1164	Integrating the Z-scheme heterojunction and hot electrons injection into a plasmonic-based ZnInS/WO composite induced improved molecular oxygen activation for photocatalytic degradation and antibacterial performance. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 953-953	9.3	3
1163	Biochar in the 21st century: A data-driven visualization of collaboration, frontier identification, and future trend. <i>Science of the Total Environment</i> , 2021 , 151774	10.2	4
1162	Lignocellulosic biomass derived N-doped and CoO-loaded carbocatalyst used as highly efficient peroxymonosulfate activator for ciprofloxacin degradation.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 221-233	9.3	1
1161	Activation of persulfate by swine bone derived biochar: Insight into the specific role of different active sites and the toxicity of acetaminophen degradation pathways. <i>Science of the Total Environment</i> , 2021 , 151059	10.2	1
1160	Efficient antibiotics removal via the synergistic effect of manganese ferrite and MoS. <i>Chemosphere</i> , 2021 , 288, 132494	8.4	1
1159	2D/2D Heterojunction systems for the removal of organic pollutants: A review. <i>Advances in Colloid and Interface Science</i> , 2021 , 297, 102540	14.3	10
1158	Recent advances in waste water treatment through transition metal sulfides-based advanced oxidation processes. <i>Water Research</i> , 2021 , 192, 116850	12.5	48
1157	Presence of microplastics in drinking water from freshwater sources: the investigation in Changsha, China. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 42313-42324	5.1	9

1156	Recent progress in conjugated microporous polymers for clean energy: Synthesis, modification, computer simulations, and applications. <i>Progress in Polymer Science</i> , 2021 , 115, 101374	29.6	28
1155	Benzyl butyl phthalate activates prophage, threatening the stable operation of waste activated sludge anaerobic digestion. <i>Science of the Total Environment</i> , 2021 , 768, 144470	10.2	3
1154	Synthesis of 2D/2D CoAl-LDHs/Ti3C2Tx Schottky-junction with enhanced interfacial charge transfer and visible-light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119867	21.8	61
1153	Recent advance of graphene/semiconductor composite nanocatalysts: Synthesis, mechanism, applications and perspectives. <i>Chemical Engineering Journal</i> , 2021 , 414, 128795	14.7	20
1152	Underestimated or overestimated? Dynamic assessment of hourly PM exposure in the metropolitan area based on heatmap and micro-air monitoring stations. <i>Science of the Total Environment</i> , 2021 , 779, 146283	10.2	5
1151	Can incineration completely eliminate plastic wastes? An investigation of microplastics and heavy metals in the bottom ash and fly ash from an incineration plant. <i>Science of the Total Environment</i> , 2021 , 779, 146528	10.2	24
1150	Materials Institute Lavoisier (MIL) based materials for photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2021 , 438, 213874	23.2	14
1149	The mechanism and application of bidirectional extracellular electron transport in the field of energy and environment. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 1924-1969	11.1	8
1148	Carbon nitride based photocatalysts for solar photocatalytic disinfection, can we go further?. <i>Chemical Engineering Journal</i> , 2021 , 404, 126540	14.7	43
1147	Recent advances in application of transition metal phosphides for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021 , 405, 126547	14.7	46
1146	A study on advanced oxidation mechanism of MnCo2O4/g-C3N4 degradation of nitrobenzene: Sacrificial oxidation and radical oxidation. <i>Chemical Engineering Journal</i> , 2021 , 403, 126400	14.7	33
1145	A direct Z-scheme oxygen vacant BWO/oxygen-enriched graphitic carbon nitride polymer heterojunction with enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2021 , 403, 126363	14.7	32
1144	Surfactant changes lead adsorption behaviors and mechanisms on microplastics. <i>Chemical Engineering Journal</i> , 2021 , 405, 126989	14.7	46
1143	Effects of hydroxyl, carboxyl, and amino functionalized carbon nanotubes on the functional diversity of microbial community in riverine sediment. <i>Chemosphere</i> , 2021 , 262, 128053	8.4	8
1142	Highly efficient removal of hexavalent chromium from aqueous solution by calcined Mg/Al-layered double hydroxides/polyaniline composites. <i>Chemical Engineering Journal</i> , 2021 , 404, 127084	14.7	26
1141	Application of biochar for the remediation of polluted sediments. <i>Journal of Hazardous Materials</i> , 2021 , 404, 124052	12.8	26
1140	Microplastics in the coral reefs and their potential impacts on corals: A mini-review. <i>Science of the Total Environment</i> , 2021 , 762, 143112	10.2	38
1139	Metal-organic framework-derived nanomaterials in environment related fields: Fundamentals, properties and applications. <i>Coordination Chemistry Reviews</i> , 2021 , 429, 213618	23.2	38

1138	Microplastics and associated contaminants in the aquatic environment: A review on their ecotoxicological effects, trophic transfer, and potential impacts to human health. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124187	12.8	64
1137	Highly crystalline porous carbon nitride with electron accumulation capacity: Promoting exciton dissociation and charge carrier generation for photocatalytic molecular oxygen activation. <i>Chemical Engineering Journal</i> , 2021 , 409, 128030	14.7	22
1136	Waste valorization: Transforming the fishbone biowaste into biochar as an efficient persulfate catalyst for degradation of organic pollutant. <i>Journal of Cleaner Production</i> , 2021 , 291, 125225	10.3	12
1135	Highly efficient activation of peroxymonosulfate by CoO/BiWO p-n heterojunction composites for the degradation of ciprofloxacin under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 19-30	9.3	49
1134	Improving the Fenton-like catalytic performance of MnO-FeO/biochar using reducing agents: A comparative study. <i>Journal of Hazardous Materials</i> , 2021 , 406, 124333	12.8	46
1133	Efficient photocatalytic nitrogen fixation to ammonia over bismuth monoxide quantum dots-modified defective ultrathin graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2021 , 406, 126868	14.7	48
1132	Strategies for enhancing the perylene diimide photocatalytic degradation activity: method, effect factor, and mechanism. <i>Environmental Science: Nano</i> , 2021 , 8, 602-618	7.1	20
1131	Joint connection of experiment and simulation for photocatalytic hydrogen evolution: strength, weakness, validation and complementarity. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6749-6774	13	3
1130	Perspectives on palladium-based nanomaterials: green synthesis, ecotoxicity, and risk assessment. <i>Environmental Science: Nano</i> , 2021 , 8, 20-36	7.1	7
1129	Incorporating Fe ₃ C into B, N co-doped CNTs: Non-radical-dominated peroxymonosulfate catalytic activation mechanism. <i>Chemical Engineering Journal</i> , 2021 , 405, 126686	14.7	34
1128	Recent Advance of Transition-Metal-Based Layered Double Hydroxide Nanosheets: Synthesis, Properties, Modification, and Electrocatalytic Applications. <i>Advanced Energy Materials</i> , 2021 , 11, 2002863	11.8	43
1127	Bismuth-based metal-organic frameworks and their derivatives: Opportunities and challenges. <i>Coordination Chemistry Reviews</i> , 2021 , 439, 213902	23.2	15
1126	New notion of biochar: A review on the mechanism of biochar applications in advanced oxidation processes. <i>Chemical Engineering Journal</i> , 2021 , 416, 129027	14.7	38
1125	A review of biodegradable plastics to biodegradable microplastics: Another ecological threat to soil environments?. <i>Journal of Cleaner Production</i> , 2021 , 312, 127816	10.3	43
1124	The arsenic chemical species proportion and viral arsenic biotransformation genes composition affects lysogenic phage treatment under arsenic stress. <i>Science of the Total Environment</i> , 2021 , 780, 146628	10.2	0
1123	The approaches and prospects for natural organic matter-derived disinfection byproducts control by carbon-based materials in water disinfection progresses. <i>Journal of Cleaner Production</i> , 2021 , 311, 127799	10.3	6
1122	Highly efficient catalytic hydrogenation of nitrophenols by sewage sludge derived biochar. <i>Water Research</i> , 2021 , 201, 117360	12.5	4
1121	Photocatalytic water purification with graphitic C ₃ N ₄ -based composites: Enhancement, mechanisms, and performance. <i>Applied Materials Today</i> , 2021 , 24, 101118	6.6	4

1120	Interfacial Co-N bond bridged CoB/g-C ₃ N ₄ Schottky junction with modulated charge transfer dynamics for highly efficient photocatalytic Staphylococcus aureus inactivation. <i>Chemical Engineering Journal</i> , 2021 , 422, 130029	14.7	17
1119	Smoked cigarette butts: Ignorable source for environmental microplastic fibers. <i>Science of the Total Environment</i> , 2021 , 791, 148384	10.2	9
1118	Removal of microplastics from wastewater with aluminosilicate filter media and their surfactant-modified products: Performance, mechanism and utilization. <i>Chemical Engineering Journal</i> , 2021 , 421, 129918	14.7	15
1117	Ferrocene modified g-C ₃ N ₄ as a heterogeneous catalyst for photo-assisted activation of persulfate for the degradation of tetracycline. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 127024	5.1	11
1116	Silver iodide decorated ZnSn(OH) ₆ hollow cube: Room-temperature preparation and application for highly efficient photocatalytic oxytetracycline degradation. <i>Chemical Engineering Journal</i> , 2021 , 421, 129810	14.7	24
1115	Significantly enhanced desalination performance of flow-electrode capacitive deionization via cathodic iodide redox couple and its great potential in treatment of iodide-containing saline wastewater. <i>Chemical Engineering Journal</i> , 2021 , 421, 129905	14.7	17
1114	Potential hazards of biochar: The negative environmental impacts of biochar applications. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126611	12.8	19
1113	Microplastics retention by reeds in freshwater environment. <i>Science of the Total Environment</i> , 2021 , 790, 148200	10.2	22
1112	Neglected microplastics pollution in global COVID-19: Disposable surgical masks. <i>Science of the Total Environment</i> , 2021 , 790, 148130	10.2	41
1111	Evaluating the metabolic functional profiles of the microbial community and alfalfa (<i>Medicago sativa</i>) traits affected by the presence of carbon nanotubes and antimony in drained and waterlogged sediments. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126593	12.8	4
1110	Effects of virgin microplastics on the transport of Cd (II) in Xiangjiang River sediment. <i>Chemosphere</i> , 2021 , 283, 131197	8.4	3
1109	State-of-the-art progress in the rational design of layered double hydroxide based photocatalysts for photocatalytic and photoelectrochemical H ₂ /O ₂ production. <i>Coordination Chemistry Reviews</i> , 2021 , 446, 214103	23.2	11
1108	Refined regulation and nitrogen doping of biochar derived from ramie fiber by deep eutectic solvents (DESS) for catalytic persulfate activation toward non-radical organics degradation and disinfection. <i>Journal of Colloid and Interface Science</i> , 2021 , 601, 544-555	9.3	11
1107	Thin-film composite polyester nanofiltration membrane with high flux and efficient dye/salts separation fabricated from precise molecular sieving structure of β -cyclodextrin. <i>Separation and Purification Technology</i> , 2021 , 276, 119352	8.3	7
1106	Anchoring CuFe ₂ O ₄ nanoparticles into N-doped carbon nanosheets for peroxydisulfate activation: Built-in electric field dominated radical and non-radical process. <i>Chemical Engineering Journal</i> , 2021 , 426, 130850	14.7	19
1105	Constructing a plasma-based Schottky heterojunction for near-infrared-driven photothermal synergistic water disinfection: Synergistic effects and antibacterial mechanisms. <i>Chemical Engineering Journal</i> , 2021 , 426, 131902	14.7	13
1104	Porous graphitic carbon nitride nanomaterials for water treatment. <i>Environmental Science: Nano</i> , 2021 , 8, 1835-1862	7.1	5
1103	1D porous tubular g-C ₃ N ₄ capture black phosphorus quantum dots as 1D/0D metal-free photocatalysts for oxytetracycline hydrochloride degradation and hexavalent chromium reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 273, 119051	21.8	158

1102	Utilization of biochar for resource recovery from water: A review. <i>Chemical Engineering Journal</i> , 2020 , 397, 125502	14.7	63
1101	Covalent organic framework photocatalysts: structures and applications. <i>Chemical Society Reviews</i> , 2020 , 49, 4135-4165	58.5	243
1100	Insight into photocatalytic nitrogen fixation on graphitic carbon nitride: Defect-dopant strategy of nitrogen defect and boron dopant. <i>Chemical Engineering Journal</i> , 2020 , 396, 125395	14.7	41
1099	In situ constructing 2D/1D MgInS/CdS heterojunction system with enhanced photocatalytic activity towards treatment of wastewater and H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2020 , 576, 264-279	9.3	55
1098	Hybrid architectures based on noble metals and carbon-based dots nanomaterials: A review of recent progress in synthesis and applications. <i>Chemical Engineering Journal</i> , 2020 , 399, 125743	14.7	46
1097	In Situ Grown Single-Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. <i>Small</i> , 2020 , 16, e2001634	11	118
1096	Mutual effects of silver nanoparticles and antimony(III)/(V) co-exposed to Glycine max (L.) Merr. in hydroponic systems: uptake, translocation, physicochemical responses, and potential mechanisms. <i>Environmental Science: Nano</i> , 2020 , 7, 2691-2707	7.1	9
1095	Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6434-6470	13	67
1094	Graphdiyne: A Rising Star of Electrocatalyst Support for Energy Conversion. <i>Advanced Energy Materials</i> , 2020 , 10, 2000177	21.8	53
1093	3D graphene aerogel based photocatalysts: Synthesized, properties, and applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 594, 124666	5.1	11
1092	Amidoxime-based materials for uranium recovery and removal. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7588-7625	13	77
1091	Few-layer graphitic carbon nitride nanosheet with controllable functionalization as an effective metal-free activator for peroxydisulfate photocatalytic activation: Role of the energy band bending. <i>Chemical Engineering Journal</i> , 2020 , 401, 126072	14.7	55
1090	Hollow tubular graphitic carbon nitride catalyst with adjustable nitrogen vacancy: Enhanced optical absorption and carrier separation for improving photocatalytic activity. <i>Chemical Engineering Journal</i> , 2020 , 402, 126185	14.7	39
1089	Crystal phase engineering Zn _{0.8} Cd _{0.2} S nanocrystals with twin-induced homojunctions for photocatalytic nitrogen fixation under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 401, 112766	4.7	9
1088	Insight into the mechanism of persulfate activated by bone char: Unraveling the role of functional structure of biochar. <i>Chemical Engineering Journal</i> , 2020 , 401, 126127	14.7	45
1087	Potential Interactions between Three Common Metal Oxide Nanoparticles and Antimony(III/V) Involving Their Uptake, Distribution, and Phytotoxicity to Soybean. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10125-10141	8.3	8
1086	Desalination behavior and performance of flow-electrode capacitive deionization under various operational modes. <i>Chemical Engineering Journal</i> , 2020 , 389, 124051	14.7	50
1085	Powerful combination of 2D g-C ₃ N ₄ and 2D nanomaterials for photocatalysis: Recent advances. <i>Chemical Engineering Journal</i> , 2020 , 390, 124475	14.7	98

1084	Revealing the active period and type of tetracycline stress on Chinese cabbage (<i>Brassica rapa</i> L.) during seed germination and post-germination. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 11443-11449	5.1	1
1083	Nitrogen-doped biochar fiber with graphitization from <i>Boehmeria nivea</i> for promoted peroxymonosulfate activation and non-radical degradation pathways with enhancing electron transfer. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118850	21.8	208
1082	Bimetallic nanoparticles/metal-organic frameworks: Synthesis, applications and challenges. <i>Applied Materials Today</i> , 2020 , 19, 100564	6.6	23
1081	(Micro)plastic crisis: Un-ignorable contribution to global greenhouse gas emissions and climate change. <i>Journal of Cleaner Production</i> , 2020 , 254, 120138	10.3	116
1080	Unravelling the interfacial charge migration pathway at atomic level in 2D/2D interfacial Schottky heterojunction for visible-light-driven molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2020 , 266, 118650	21.8	94
1079	Insights into catalytic removal and separation of attached metals from natural-aged microplastics by magnetic biochar activating oxidation process. <i>Water Research</i> , 2020 , 179, 115876	12.5	85
1078	Molecular engineering of polymeric carbon nitride for highly efficient photocatalytic oxytetracycline degradation and H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118970	21.8	135
1077	Removal of microplastics via drinking water treatment: Current knowledge and future directions. <i>Chemosphere</i> , 2020 , 251, 126612	8.4	90
1076	Are biodegradable plastics a promising solution to solve the global plastic pollution?. <i>Environmental Pollution</i> , 2020 , 263, 114469	9.3	126
1075	Two-dimensional transition metal carbide and nitride (MXene) derived quantum dots (QDs): synthesis, properties, applications and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7508-7535	13	95
1074	Degradation of sulfamethazine by biochar-supported bimetallic oxide/persulfate system in natural water: Performance and reaction mechanism. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122816	12.8	86
1073	Using graphdiyne (GDY) as a catalyst support for enhanced performance in organic pollutant degradation and hydrogen production: A review. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122957	12.8	23
1072	Influence of multi-walled carbon nanotubes on the microbial biomass, enzyme activity, and bacterial community structure in 2,4-dichlorophenol-contaminated sediment. <i>Science of the Total Environment</i> , 2020 , 713, 136645	10.2	21
1071	Design and engineering of layered double hydroxide based catalysts for water depollution by advanced oxidation processes: a review. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4141-4173	13	72
1070	Ti ₃ C ₂ T _x MXene decorated black phosphorus nanosheets with improved visible-light photocatalytic activity: experimental and theoretical studies. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5171-5185	13	94
1069	A "bottle-around-ship" like method synthesized yolk-shell AgPO@MIL-53(Fe) Z-scheme photocatalysts for enhanced tetracycline removal. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 501-511	9.3	43
1068	Recent progress in sustainable technologies for adsorptive and reactive removal of sulfonamides. <i>Chemical Engineering Journal</i> , 2020 , 389, 123423	14.7	63
1067	Application of QD-MOF composites for photocatalysis: Energy production and environmental remediation. <i>Coordination Chemistry Reviews</i> , 2020 , 403, 213097	23.2	137

1066	Recent development of advanced biotechnology for wastewater treatment. <i>Critical Reviews in Biotechnology</i> , 2020 , 40, 99-118	9.4	20
1065	Responses of enzymatic activity and microbial communities to biochar/compost amendment in sulfamethoxazole polluted wetland soil. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121533	12.8	68
1064	Aging of zero-valent iron-based nanoparticles in aqueous environment and the consequent effects on their reactivity and toxicity. <i>Water Environment Research</i> , 2020 , 92, 646-661	2.8	21
1063	Synergistic removal of copper and tetracycline from aqueous solution by steam-activated bamboo-derived biochar. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121470	12.8	54
1062	Photocatalytic degradation of sulfamethazine using a direct Z-Scheme AgI/BiVO photocatalyst: Mineralization activity, degradation pathways and promoted charge separation mechanism. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121508	12.8	110
1061	Advances in photocatalysis based on fullerene C60 and its derivatives: Properties, mechanism, synthesis, and applications. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118579	21.8	100
1060	Steering exciton dissociation and charge migration in green synthetic oxygen-substituted ultrathin porous graphitic carbon nitride for boosted photocatalytic reactive oxygen species generation. <i>Chemical Engineering Journal</i> , 2020 , 385, 123919	14.7	78
1059	Distorted polymeric carbon nitride via carriers transfer bridges with superior photocatalytic activity for organic pollutants oxidation and hydrogen production under visible light. <i>Journal of Hazardous Materials</i> , 2020 , 386, 121947	12.8	75
1058	Construction of highly water-stable metal-organic framework UiO-66 thin-film composite membrane for dyes and antibiotics separation. <i>Chemical Engineering Journal</i> , 2020 , 385, 123400	14.7	71
1057	Can microplastics pose a threat to ocean carbon sequestration?. <i>Marine Pollution Bulletin</i> , 2020 , 150, 110712	6.7	56
1056	Lanthanum hydroxides modified poly(epichlorohydrin)-ethylenediamine composites for highly efficient phosphate removal and bacteria disinfection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 588, 124344	5.1	8
1055	Influence of humic acid and its different molecular weight fractions on sedimentation of nanoscale zero-valent iron. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 2786-2796	5.1	1
1054	How climate change and eutrophication interact with microplastic pollution and sediment resuspension in shallow lakes: A review. <i>Science of the Total Environment</i> , 2020 , 705, 135979	10.2	49
1053	Efficient removal of perfluorooctanoic acid by persulfate advanced oxidative degradation: inherent roles of iron-porphyrin and persistent free radicals. <i>Chemical Engineering Journal</i> , 2020 , 392, 123640	14.7	18
1052	Sensitivity difference between skotomorphogenesis and photomorphogenesis of plants to antibiotics: A call for research. <i>Chemosphere</i> , 2020 , 242, 125261	8.4	3
1051	Effects of carbon nanotubes on biodegradation of pollutants: Positive or negative?. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 189, 109914	7	21
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907	Fabrication of visible-light-driven silver iodide modified iodine-deficient bismuth oxyiodides Z-scheme heterojunctions with enhanced photocatalytic activity for <i>Escherichia coli</i> inactivation and tetracycline degradation. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 636-648	9.3	48
906	In-situ synthesis of 3D microsphere-like In ₂ S ₃ /InVO ₄ heterojunction with efficient photocatalytic activity for tetracycline degradation under visible light irradiation. <i>Chemical Engineering Journal</i> , 2019 , 356, 371-381	14.7	119
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903	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , 2019 , 48, 488-516	58.5	390
902	Photo-removal of 2,2',4,4'-tetrabromodiphenyl ether in liquid medium by reduced graphene oxide bridged artificial Z-scheme system of Ag@Ag ₃ PO ₄ /g-C ₃ N ₄ . <i>Chemical Engineering Journal</i> , 2019 , 361, 373-386	14.7	74
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900	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn ₂ In ₂ S ₅ /Ti ₃ C ₂ (O, OH) _x hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 290-301	21.8	155
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896	Novel Bi ₂ CO ₃ /MoS ₂ composites membranes with enhanced permeability for effective salts and dyes rejection at low pressure. <i>Journal of Membrane Science</i> , 2019 , 574, 112-123	9.6	89
895	Nanohybrid Photocatalysts for Recalcitrant Organic Pollutant Degradation 2019 , 155-200		2
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891	N- and O-Doped Carbon Dots for Rapid and High-Throughput Dual Detection of Trace Amounts of Iron in Water and Organic Phases. <i>Journal of Fluorescence</i> , 2019 , 29, 137-144	2.4	7
890	Insights into enhanced removal of TCE utilizing sulfide-modified nanoscale zero-valent iron activated persulfate. <i>Chemical Engineering Journal</i> , 2019 , 359, 1046-1055	14.7	71
889	Tailored indium sulfide-based materials for solar-energy conversion and utilization. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019 , 38, 1-26	16.4	80
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483	Manganese-enhanced degradation of lignocellulosic waste by Phanerochaete chrysosporium: evidence of enzyme activity and gene transcription. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6541-6549	5.7	19
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