

Facile assembled biochar-based nanocomposite with improved photocatalytic activity driven by visible light

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Spatial distribution and ecological risk assessment of heavy metals in soil from the Raoyanghe Wetland, China. PLoS ONE, 2019, 14, e0220409.	1.1	26
2	Synthesis of alginate/carbon nanotube/carbon dot/fluoroapatite/TiO <sub>2</sub> beads for dye photocatalytic degradation under ultraviolet light. Carbohydrate Polymers, 2019, 224, 115138.	5.1	49
3	A sustainable ferromanganese biochar adsorbent for effective levofloxacin removal from aqueous medium. Chemosphere, 2019, 237, 124464.	4.2	127
4	Cooperative catalytic performance of bimetallic Ni-Au nanocatalyst for highly efficient hydrogenation of nitroaromatics and corresponding mechanism insight. Applied Catalysis B: Environmental, 2019, 259, 118035.	10.8	154
5	The staggered heterojunction of CeO <sub>2</sub> /CdS nanocomposite for enhanced photocatalytic activity. Solid State Sciences, 2019, 96, 105951.	1.5	33
6	Graphitic carbon nitride based Z scheme photocatalysts: Design considerations, synthesis, characterization and applications. Journal of Industrial and Engineering Chemistry, 2019, 79, 383-408.	2.9	63
7	Removal of Cr(VI) from water using pineapple peel derived biochars: Adsorption potential and re-usability assessment. Journal of Molecular Liquids, 2019, 293, 111497.	2.3	165
8	Preparation of silver-nanoparticle-loaded magnetic biochar/poly(dopamine) composite as catalyst for reduction of organic dyes. Journal of Colloid and Interface Science, 2019, 555, 460-469.	5.0	55
9	Urea/nitric acid co-impregnated pitch-based activated carbon fiber for the effective removal of formaldehyde. Journal of Industrial and Engineering Chemistry, 2019, 80, 98-105.	2.9	26
10	Photocatalytic degradation of Irgalite violet dye using nickel ferrite nanoparticles. Journal of Water Supply: Research and Technology - AQUA, 2019, 68, 666-674.	0.6	18
11	Synthesis of novel biochar from waste plant litter biomass for the removal of Arsenic (III and V) from aqueous solution: A mechanism characterization, kinetics and thermodynamics. Journal of Environmental Management, 2019, 248, 109235.	3.8	78
12	Facile synthesis of Br-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets via one-step exfoliation using ammonium bromide for photodegradation of oxytetracycline antibiotics. Journal of Industrial and Engineering Chemistry, 2019, 79, 473-481.	2.9	53
13	A multifunctional platform by controlling of carbon nitride in the core-shell structure: From design to construction, and catalysis applications. Applied Catalysis B: Environmental, 2019, 258, 117957.	10.8	126
14	Ultra-efficient sorption of Cu <sup>2+</sup> and Pb <sup>2+</sup> ions by light biochar derived from Medulla tetrapanacis. Bioresource Technology, 2019, 291, 121818.	4.8	42
15	Ti <sub>3</sub> C <sub>2</sub> Mxene/porous g-C <sub>3</sub> N <sub>4</sub> interfacial Schottky junction for boosting spatial charge separation in photocatalytic H <sub>2</sub> O <sub>2</sub> production. Applied Catalysis B: Environmental, 2019, 258, 117956.	10.8	485
16	A review on carbon-based materials for heterogeneous sonocatalysis: Fundamentals, properties and applications. Ultrasonics Sonochemistry, 2019, 58, 104681.	3.8	86
17	Regenerable bagasse-based carbon activated by in situ formation of zero-valent zinc microparticles for high-performance degradation of amoxicillin in water. Environmental Science and Pollution Research, 2019, 26, 27677-27686.	2.7	6
18	Starch Nanoparticles@Graphene Aerogels with High Supercapacitor Performance and Efficient Adsorption. ACS Sustainable Chemistry and Engineering, 2019, 7, 14064-14073.	3.2	68

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19	Synthesis, characterization and environmental applications of bismuth vanadate. Research on Chemical Intermediates, 2019, 45, 5217-5259.	1.3	32
20	Hierarchical nickel cobalt oxide spinel microspheres catalyze mineralization of humic substances during wet air oxidation at atmospheric pressure. Applied Catalysis B: Environmental, 2019, 256, 117858.	10.8	28
21	Microwave-assisted chemical modification method for surface regulation of biochar and its application for estrogen removal. Chemical Engineering Research and Design, 2019, 128, 329-341.	2.7	42
22	Sulfur doped carbon quantum dots loaded hollow tubular g-C <sub>3</sub> N <sub>4</sub> as novel photocatalyst for destruction of Escherichia coli and tetracycline degradation under visible light. Chemical Engineering Journal, 2019, 378, 122132.	6.6	320
23	One-pot construction of Cu and O co-doped porous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic performance towards the degradation of levofloxacin. RSC Advances, 2019, 9, 20633-20642.	1.7	23
24	An experimental and theoretical study of the effect of Ce doping in ZnO/CNT composite thin film with enhanced visible light photo-catalysis. International Journal of Hydrogen Energy, 2019, 44, 20068-20078.	3.8	26
25	Roles of adding biochar and montmorillonite alone on reducing the bioavailability of heavy metals during chicken manure composting. Bioresource Technology, 2019, 294, 122199.	4.8	81
26	Engineering of Z-scheme 2D/3D architectures with Bi <sub>2</sub> MoO <sub>6</sub> on TiO <sub>2</sub> nanosphere for enhanced photocatalytic 4-nitrophenol degradation. Journal of the Taiwan Institute of Chemical Engineers, 2019, 105, 65-74.	2.7	38
27	Sewage sludge incineration ash for coimmobilization of lead, zinc and copper: Mechanisms of metal incorporation and competition. Waste Management, 2019, 99, 102-111.	3.7	24
28	Construction of phenyl-grafted carbon nitride for enhancing the visible-light activity. Chemical Physics Letters, 2019, 737, 136817.	1.2	10
29	Constructing OD FeP Nanodots/2D g-C <sub>3</sub> N <sub>4</sub> Nanosheets Heterojunction for Highly Improved Photocatalytic Hydrogen Evolution. ChemCatChem, 2019, 11, 6310-6315.	1.8	33
30	Functionalization of gum arabic including glycoprotein and polysaccharides for the removal of boron. Carbohydrate Polymers, 2019, 225, 115139.	5.1	34
31	Development of sponge/graphene oxide composite as eco-friendly filter to remove methylene blue from aqueous media. Applied Surface Science, 2019, 496, 143676.	3.1	29
32	Powerful combination of g-C <sub>3</sub> N <sub>4</sub> and LDHs for enhanced photocatalytic performance: A review of strategy, synthesis, and applications. Advances in Colloid and Interface Science, 2019, 272, 101999.	7.0	127
33	Construction of heterostructure CoWO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanocomposite as an efficient visible-light photocatalyst for norfloxacin degradation. Journal of Industrial and Engineering Chemistry, 2019, 80, 558-567.	2.9	75
34	Adsorption-photocatalytical remediation for series of tetracycline contaminants with BiOCl/CdS composite under simulated sunlight. Journal of the Taiwan Institute of Chemical Engineers, 2019, 104, 94-105.	2.7	25
35	Solar light active silver/iron oxide/zinc oxide heterostructure for photodegradation of ciprofloxacin, transformation products and antibacterial activity. Journal of Colloid and Interface Science, 2019, 557, 236-253.	5.0	60
36	Structural Insights on 2D Gadolinium Tungstate Nanoflake: A Promising Electrocatalyst for Sensor and Photocatalyst for the Degradation of Postharvest Fungicide (Carbendazim). ACS Applied Materials & Interfaces, 2019, 11, 37172-37183.	4.0	55

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37	The photocatalytic degradation of diesel by solar light-driven floating BiOI/EP composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123996.	2.3	23
38	Biochar and rice husk ash assisted phytoremediation potentials of <i>Ricinus communis</i> L. for lead-spiked soils. <i>Ecotoxicology and Environmental Safety</i> , 2019, 183, 109574.	2.9	65
39	Biosorption of Tm(III) by free and polysulfone-immobilized <i>Turbinaria conoides</i> biomass. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 318-324.	2.9	23
40	Facile fabrication of mesoporous biochar/ZnFe <sub>2</sub> O <sub>4</sub> composite with enhanced visible-light photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19967-19977.	3.8	39
41	Nano-zero-valent iron and MnO <sub>x</sub> selective deposition on BiVO <sub>4</sub> decahedron superstructures for promoted spatial charge separation and exceptional catalytic activity in visible-light-driven photocatalysis-Fenton coupling system. <i>Journal of Hazardous Materials</i> , 2019, 377, 330-340.	6.5	48
42	A biochar modified nickel-foam cathode with iron-foam catalyst in electro-Fenton for sulfamerazine degradation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117796.	10.8	142
43	Roles of functional groups and irons on bromate removal by FeCl <sub>3</sub> modified porous carbon. <i>Applied Surface Science</i> , 2019, 488, 681-687.	3.1	29
44	Hybrid materials for heterogeneous photocatalytic degradation of antibiotics. <i>Coordination Chemistry Reviews</i> , 2019, 395, 63-85.	9.5	141
45	Synthesis and Catalytic Applicability of Pt/Pd ITO Grown Nano Catalyst: An Excellent Candidate for Reduction of Toxic Hexavalent Chromium. <i>Catalysis Letters</i> , 2019, 149, 2415-2424.	1.4	11
46	Metal-organic frameworks derived magnetic carbon-Fe/Fe <sub>3</sub> C composites as a highly effective adsorbent for tetracycline removal from aqueous solution. <i>Chemical Engineering Journal</i> , 2019, 374, 91-99.	6.6	141
47	Cr(VI) and Pb(II) capture on pH-responsive polyethyleneimine and chloroacetic acid functionalized chitosan microspheres. <i>Carbohydrate Polymers</i> , 2019, 219, 353-367.	5.1	57
48	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. <i>Composites Part B: Engineering</i> , 2019, 172, 704-723.	5.9	61
49	Effect of <i>Prosopis juliflora</i> Biochar on Physico-Chemical Properties of Naphthalene and Phenanthrene Contaminated Soil. <i>Polycyclic Aromatic Compounds</i> , 2021, 41, 1406-1417.	1.4	9
50	Enhancing the adsorption capability of areca leaf biochar for methylene blue by K <sub>2</sub> FeO <sub>4</sub> -catalyzed oxidative pyrolysis at low temperature. <i>RSC Advances</i> , 2019, 9, 42343-42350.	1.7	12
51	Core-shell magnetic nano-powders with an excellent decolorization effect on dye wastewater. <i>RSC Advances</i> , 2019, 9, 39945-39950.	1.7	7
52	Coadsorption of Cu(II) and tylosin/sulfamethoxazole on biochar stabilized by nano-hydroxyapatite in aqueous environment. <i>Chemical Engineering Journal</i> , 2020, 381, 122785.	6.6	53
53	Bio-inspired and biomaterials-based hybrid photocatalysts for environmental detoxification: A review. <i>Chemical Engineering Journal</i> , 2020, 382, 122937.	6.6	201
54	Electrochemically enhanced simultaneous degradation of sulfamethoxazole, ciprofloxacin and amoxicillin from aqueous solution by multi-walled carbon nanotube filter. <i>Separation and Purification Technology</i> , 2020, 235, 116167.	3.9	65

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55	Magnetic biochar derived from biosolids via hydrothermal carbonization: Enzyme immobilization, immobilized-enzyme kinetics, environmental toxicity. <i>Journal of Hazardous Materials</i> , 2020, 384, 121272.	6.5	45
56	Carboxymethyl cellulose stabilized and sulfidated nanoscale zero-valent iron: Characterization and trichloroethene dechlorination. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118303.	10.8	81
57	Spatial variability characteristics and environmental effects of heavy metals in surface riparian soils and surface sediments of Qinggeda Lake. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020, 26, 2027-2043.	1.7	3
58	TiO <sub>2</sub> @C core@shell nanocomposites: A single precursor synthesis of photocatalyst for efficient solar water treatment. <i>Journal of Hazardous Materials</i> , 2020, 381, 120883.	6.5	37
59	Enhanced visible light photocatalytic activity of CeO <sub>2</sub> @Zn <sub>0.5</sub> Cd <sub>0.5</sub> S by facile Ce(IV)/Ce(III) cycle. <i>Arabian Journal of Chemistry</i> , 2020, 13, 4198-4209.	2.3	32
60	Degradation of 2,4-dichlorophenol by a novel iron based system and its synergism with Cd(II) immobilization in a contaminated soil. <i>Chemical Engineering Journal</i> , 2020, 379, 122313.	6.6	58
61	Solvent extraction, separation and recovery of thorium from Korean monazite leach liquors for nuclear industry applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 72-80.	2.9	15
62	Fabrication of functionalized plasmonic Ag loaded Bi <sub>2</sub> O <sub>3</sub> /montmorillonite nanocomposites for efficient photocatalytic removal of antibiotics and organic dyes. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152836.	2.8	73
63	A "bottle-around-ship"-like method synthesized yolk-shell Ag <sub>3</sub> PO <sub>4</sub> @MIL-53(Fe) Z-scheme photocatalysts for enhanced tetracycline removal. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 501-511.	5.0	67
64	Effect and study of reducing agent NaBH <sub>4</sub> on Bi/BiOBr/CdS photocatalyst. <i>Materials Letters</i> , 2020, 259, 126874.	1.3	12
65	Biochar for delivery of agri-inputs: Current status and future perspectives. <i>Science of the Total Environment</i> , 2020, 703, 134892.	3.9	64
66	Stable self-assembly AgI/UiO-66(NH <sub>2</sub> ) heterojunction as efficient visible-light responsive photocatalyst for tetracycline degradation and mechanism insight. <i>Chemical Engineering Journal</i> , 2020, 384, 123310.	6.6	150
67	Facile synthesis of ultra-small Ag decorated g-C <sub>3</sub> N <sub>4</sub> photocatalyst via strong interaction between Ag <sup>+</sup> and cyano group in monocyanamide. <i>Applied Surface Science</i> , 2020, 503, 143891.	3.1	26
68	One-step synthesis of a WO <sub>3</sub> /CuS nanosheet heterojunction with enhanced photocatalytic performance for methylene blue degradation and Cr(VI) reduction. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 665-674.	1.6	34
69	One-step fabrication of binder-free air cathode for microbial fuel cells by using balsa wood biochar. <i>Environmental Technology and Innovation</i> , 2020, 18, 100615.	3.0	36
70	Insights into the enhanced adsorption/photocatalysis mechanism of a Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheet. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153557.	2.8	104
71	Synthesis of Ag and AgCl co-doped ZIF-8 hybrid photocatalysts with enhanced photocatalytic activity through a synergistic effect. <i>RSC Advances</i> , 2020, 10, 698-704.	1.7	22
72	Efficient visible-light photocatalytic MoS <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> controllably constructed in the presence of surfactants. <i>Materials Chemistry and Physics</i> , 2020, 243, 122643.	2.0	13

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73	Water chemistry influences on long-term dissolution kinetics of CdSe/ZnS quantum dots. <i>Journal of Environmental Sciences</i> , 2020, 90, 216-233.	3.2	16
74	Biogenic mediated Ag/ZnO nanocomposites for photocatalytic and antibacterial activities towards disinfection of water. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 370-380.	5.0	154
75	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.	6.5	95
76	Adsorption behavior of tetracycline onto <i>Spirulina</i> sp. (microalgae)-derived biochars produced at different temperatures. <i>Science of the Total Environment</i> , 2020, 710, 136282.	3.9	160
77	Adsorption behavior of tetracycline from aqueous solution on ferroferric oxide nanoparticles assisted powdered activated carbon. <i>Chemical Engineering Journal</i> , 2020, 384, 123290.	6.6	139
78	Characterizing the interactions between sediment dissolved organic matter and zinc using multispectroscopic techniques. <i>Environmental Pollution</i> , 2020, 261, 113644.	3.7	25
79	Magsorbents: Potential candidates in wastewater treatment technology – A review on the removal of methylene blue dye. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166408.	1.0	196
80	Biochar amendment effectively reduces the transport of 3,5,6-trichloro-2-pyridinol (a main) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 245, 125651.	4.2	19
81	Band-matching transformation between CdS and BCNNTs with tunable p-n homojunction for enhanced photocatalytic pure water splitting. <i>Nano Energy</i> , 2020, 69, 104408.	8.2	52
82	Fabrication and characterization of ZnTiO <sub>3</sub> /Zn <sub>2</sub> Ti <sub>3</sub> O <sub>8</sub> /ZnO ternary photocatalyst for synergetic removal of aqueous organic pollutants and Cr(VI) ions. <i>Science of the Total Environment</i> , 2020, 706, 136026.	3.9	60
83	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.	6.6	36
84	Evaluation of seven chemical pesticides by mixed microbial culture (PCS-1): Degradation ability, microbial community, and <i>Medicago sativa</i> phytotoxicity. <i>Journal of Hazardous Materials</i> , 2020, 389, 121834.	6.5	39
85	Preparation and application of magnetic biochar in water treatment: A critical review. <i>Science of the Total Environment</i> , 2020, 711, 134847.	3.9	223
86	Rapid and efficient removal of acetochlor from environmental water using Cr-MIL-101 sorbent modified with 3, 5-Bis(trifluoromethyl)phenyl isocyanate. <i>Science of the Total Environment</i> , 2020, 710, 135512.	3.9	11
87	Photocatalytic performance and mechanism of Z-Scheme CuBi <sub>2</sub> O <sub>4</sub> /Ag <sub>3</sub> PO <sub>4</sub> in the degradation of diclofenac sodium under visible light irradiation: Effects of pH, H <sub>2</sub> O <sub>2</sub> , and S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> . <i>Science of the Total Environment</i> , 2020, 711, 134643.	3.9	52
88	Graphite-bridged indirect Z-scheme system TiO <sub>2</sub> –Ca–BiVO <sub>4</sub> film with enhanced photoelectrocatalytic activity towards serial bisphenols. <i>Environmental Research</i> , 2020, 191, 110221.	3.7	10
89	A review on CO <sub>2</sub> capture via nitrogen-doped porous polymers and catalytic conversion as a feedstock for fuels. <i>Journal of Cleaner Production</i> , 2020, 277, 123999.	4.6	45
90	Praseodymium-doped cadmium tungstate (CdWO <sub>4</sub> ) nanoparticles for dye degradation with sonocatalytic process. <i>Polyhedron</i> , 2020, 190, 114792.	1.0	45

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91	Adsorption and photocatalytic characteristics of cobalt ferrite-reduced graphene oxide and cobalt ferrite-carbon nanotube nanocomposites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 403, 112867.	2.0	45
92	The passivation effect of heavy metals during biochar-amended composting: Emphasize on bacterial communities. <i>Waste Management</i> , 2020, 118, 360-368.	3.7	37
93	Enhanced pyrolysis of palm kernel shell wastes to bio-based chemicals and syngas using red mud as an additive. <i>Journal of Cleaner Production</i> , 2020, 272, 122847.	4.6	16
94	Soft and hard templates assisted synthesis mesoporous CuO/g-C <sub>3</sub> N <sub>4</sub> heterostructures for highly enhanced and accelerated Hg(II) photoreduction under visible light. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 223-233.	5.0	106
95	Impact of torrefaction on biomass properties depending on temperature and operation time. <i>Science of the Total Environment</i> , 2020, 740, 140086.	3.9	51
96	Recent advances in application of graphitic carbon nitride-based catalysts for degrading organic contaminants in water through advanced oxidation processes beyond photocatalysis: A critical review. <i>Water Research</i> , 2020, 184, 116200.	5.3	343
97	One-pot synthesis of ultrafine NiO loaded and Ti <sub>3+</sub> in-situ doped TiO <sub>2</sub> induced by cyclodextrin for efficient visible-light photodegradation of hydrophobic pollutants. <i>Chemical Engineering Journal</i> , 2020, 402, 126211.	6.6	44
98	Copper sulphide-Zirconium dioxide nanocomposites photocatalyst with enhanced UV-light photocatalysis efficiency: structural and methodology. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 8004-8018.	1.8	6
99	Magnetically treated Zr-based UiO-type porous coordination polymers study on adsorption of azo dye. <i>Microporous and Mesoporous Materials</i> , 2020, 306, 110291.	2.2	14
100	Fabrication of visible-light responsive TiO <sub>2</sub> @C photocatalyst with an ultra-thin carbon layer to efficiently degrade organic pollutants. <i>Applied Surface Science</i> , 2020, 532, 147482.	3.1	38
101	Catalytic degradation of sulfamethoxazole by persulfate activated with magnetic graphitized biochar: Multiple mechanisms and variables effects. <i>Chemical Engineering Research and Design</i> , 2020, 144, 143-157.	2.7	29
102	Unprecedented arsenic photo-oxidation behavior of few- and multi-layer Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nano-sheets. <i>Applied Materials Today</i> , 2020, 20, 100769.	2.3	25
103	Microwave-assisted synthesis of palladium nanoparticles using Frankincense resin and evaluation of their catalytic properties. <i>Materials Letters</i> , 2020, 278, 128427.	1.3	19
104	Simultaneous Removal of Tetracycline and Cu(II) in Hybrid Wastewater through Formic-Acid-Assisted TiO <sub>2</sub> Photocatalysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 15098-15108.	1.8	30
105	Removal of 4-nonylphenol from Surface Water and Municipal Wastewater Effluent Using Three-Dimensional Graphene Oxide-Chitosan Aerogel Beads. <i>International Journal of Environmental Research</i> , 2020, 14, 513-526.	1.1	16
106	Laser-assisted synthesis of ZnO/ZnSe hybrid nanostructured films for enhanced solar-light induced water splitting and water decontamination. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22938-22949.	3.8	26
107	Triblock copolymer-assisted synthesis of Z-scheme porous g-C <sub>3</sub> N <sub>4</sub> based photocatalysts with promoted visible-light-driven performance. <i>Ceramics International</i> , 2020, 46, 28903-28913.	2.3	16
108	Performance of graphite felt as anodes in the electro-Fenton oxidation systems: Changes in catalysis, conductivity and adsorption properties. <i>Applied Surface Science</i> , 2020, 532, 147450.	3.1	30

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109	Corncob biochar as a coating for trace analysis of polycyclic aromatic hydrocarbons in water samples by online in-tube solid-phase microextraction coupled to high performance liquid chromatography. <i>Microchemical Journal</i> , 2020, 159, 105399.	2.3	11
110	Highly Efficient Ru Supported on Carbon Nanosphere Nanoparticles for Ciprofloxacin Removal: Effects of Operating Parameters, Degradation Pathways, and Kinetic Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 15515-15530.	1.8	16
111	Bacterial phototoxicity of biomimetic CdTe@GSH quantum dots. <i>Journal of Applied Microbiology</i> , 2021, 131, 155-168.	1.4	6
112	Bi <sub>2</sub> O <sub>3</sub> -Sensitized TiO <sub>2</sub> Hollow Photocatalyst Drives the Efficient Removal of Tetracyclines under Visible Light. <i>Inorganic Chemistry</i> , 2020, 59, 18131-18140.	1.9	84
113	Microwave-Assisted Synthesis of CuCl <sub>2</sub> and Application to Adsorptive Denitrogenation of Model Fuel: Response Surface Methodology. <i>ChemistrySelect</i> , 2020, 5, 14583-14591.	0.7	18
114	Study on Reutilization of Pyrolytic Residues of Oily Sludge. <i>International Journal of Analytical Chemistry</i> , 2020, 2020, 1-7.	0.4	6
115	Construction of porous carbon for the highly efficient visible light-driven degradation methyl violet. <i>Bulletin of the Chemical Society of Ethiopia</i> , 2020, 34, 277-284.	0.5	1
116	1D porous tubular g-C <sub>3</sub> N <sub>4</sub> 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.	10.8	306
117	Utilization of biochar for resource recovery from water: A review. <i>Chemical Engineering Journal</i> , 2020, 397, 125502.	6.6	135
118	Construction of a rod-like Bi <sub>2</sub> O <sub>4</sub> modified porous g-C <sub>3</sub> N <sub>4</sub> nanosheets heterojunction photocatalyst for the degradation of tetracycline. <i>New Journal of Chemistry</i> , 2020, 44, 9725-9735.	1.4	28
119	Fabrication of 2D@2D Heterojunction Catalyst with Covalent Organic Framework (COF) and MoS <sub>2</sub> for Highly Efficient Photocatalytic Degradation of Organic Pollutants. <i>Inorganic Chemistry</i> , 2020, 59, 6942-6952.	1.9	107
120	A review on the evaluation of the potential utilization of construction and demolition waste in hot mix asphalt pavements. <i>Resources, Conservation and Recycling</i> , 2020, 161, 104956.	5.3	45
121	In-situ synchronous carbonation and self-activation of biochar/geopolymer composite membrane: Enhanced catalyst for oxidative degradation of tetracycline in water. <i>Chemical Engineering Journal</i> , 2020, 397, 125528.	6.6	54
122	Novel Z-scheme In <sub>2</sub> S <sub>3</sub> /BiVO <sub>4</sub> composites with improved visible-light photocatalytic performance and stability for glyphosate degradation. <i>Separation and Purification Technology</i> , 2020, 248, 117039.	3.9	70
123	Efficient Solar Light Driven Degradation of Tetracycline by Fe-EDTA Modified g-C <sub>3</sub> N <sub>4</sub> Nanosheets. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11831-11843.	1.5	24
124	Formation of Mo <sub>2</sub> C/hollow tubular g-C <sub>3</sub> N <sub>4</sub> hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. <i>Applied Surface Science</i> , 2020, 527, 146757.	3.1	56
125	Enhanced aqueous phase arsenic removal by a biochar based iron nanocomposite. <i>Environmental Technology and Innovation</i> , 2020, 19, 100936.	3.0	46
126	Comparison of molecular transformation of dissolved organic matter in vermicomposting and thermophilic composting by ESI-FT-ICR-MS. <i>Environmental Science and Pollution Research</i> , 2020, 27, 43480-43492.	2.7	19



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127	Three-dimensional porous graphene-like biochar derived from Enteromorpha as a persulfate activator for sulfamethoxazole degradation: Role of graphitic N and radicals transformation. Journal of Hazardous Materials, 2020, 399, 123039.	6.5	152
128	In Situ Grown Single-Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. Small, 2020, 16, e2001634.	5.2	235
129	Facile preparation of nitrogen and Fe <sub>x</sub> codoped porous carbon with high catalytic activity under alkaline condition. Colloids and Interface Science Communications, 2020, 37, 100291.	2.0	7
130	Functionalized electrospun nanofiber membranes for water treatment: A review. Science of the Total Environment, 2020, 739, 139944.	3.9	150
131	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	2.2	74
132	Synthesis of graphene-like carbon from biomass pyrolysis and its applications. Chemical Engineering Journal, 2020, 399, 125808.	6.6	128
133	<i>Echinops bannaticus</i> plant and <i>Zinnia grandiflora</i> extract as char biosource and reducing agent for the biosynthesis of Ag on magnetic char-polymer: An efficient catalyst for water treatment. Applied Organometallic Chemistry, 2020, 34, e5799.	1.7	6
134	Recent advances in polymer/metal/metal oxide hybrid nanostructures for catalytic applications: a review. Journal of Environmental Chemical Engineering, 2020, 8, 104175.	3.3	64
135	DFT and Kinetic Evaluation of Chloromethane Removal Using Cost-Effective Activated Carbon. Arabian Journal for Science and Engineering, 2020, 45, 4705-4716.	1.7	11
136	Microbial community composition, co-occurrence network pattern and nitrogen transformation genera response to biochar addition in cattle manure-maize straw composting. Science of the Total Environment, 2020, 721, 137759.	3.9	136
137	One-step steam pyrolysis for the production of mesoporous biochar from oil palm frond to effectively remove phenol in facultatively treated palm oil mill effluent. Environmental Technology and Innovation, 2020, 18, 100730.	3.0	27
138	High-gravity continuous preparation of chitosan-stabilized nanoscale zero-valent iron towards Cr(VI) removal. Chemical Engineering Journal, 2020, 390, 124639.	6.6	67
139	Visible-light-driven magnetically recyclable terephthalic acid functionalized g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> heterojunction nanophotocatalyst for enhanced degradation of PPCPs. Applied Catalysis B: Environmental, 2020, 270, 118898.	10.8	105
140	Biochar based catalysts for the abatement of emerging pollutants: A review. Chemical Engineering Journal, 2020, 394, 124856.	6.6	129
141	Simultaneous removal of rhodamine B and Cr(VI) from water using cellulose carbon nanofiber incorporated with bismuth oxybromide: The effect of cellulose pyrolysis temperature on photocatalytic performance. Environmental Research, 2020, 185, 109414.	3.7	53
142	Degradation of perfluorooctanoic acid by zero-valent iron nanoparticles under ultraviolet light. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	19
143	Engineering donor-acceptor conjugated organic polymers with boron nitride to enhance photocatalytic performance towards visible-light-driven metal-free selective oxidation of sulfides. Applied Catalysis B: Environmental, 2020, 277, 119274.	10.8	42
144	Synthesis of 3D lotus biochar/reduced graphene oxide aerogel as a green adsorbent for Cr(VI). Materials Chemistry and Physics, 2020, 253, 123271.	2.0	19

#	ARTICLE	IF	CITATIONS
145	rGO wrapped trimetallic sulfide nanowires as an efficient bifunctional catalyst for electrocatalytic oxygen evolution and photocatalytic organic degradation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13558-13571.	5.2	64
146	Chitosan-coated sand and its application in a fixed-bed column to remove dyes in simple, binary, and real systems. <i>Environmental Science and Pollution Research</i> , 2020, 27, 37938-37945.	2.7	14
147	Assessing the effect of surface hydrophobicity/hydrophilicity on pollutant leaching potential of biochar in water treatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 89, 222-232.	2.9	31
148	Mussel-inspired polydopamine functionalized recyclable coconut shell derived carbon nanocomposites for efficient adsorption of methylene blue. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 642-649.	2.4	20
149	Hydrothermal carbonization of waste biomass: An experimental comparison between process layouts. <i>Waste Management</i> , 2020, 114, 72-79.	3.7	7
150	A review of recent developments in catalytic applications of biochar-based materials. <i>Resources, Conservation and Recycling</i> , 2020, 162, 105036.	5.3	110
151	A novel self-sustained single step process for synthesizing activated char from ligno-cellulosic biomass. <i>Fuel Processing Technology</i> , 2020, 208, 106516.	3.7	8
152	Mechanistic insight into the electrocatalytic performance of reduced graphene oxide supported palladium, silver and palladium-silver nanodeposits toward electro-dehalogenation of halocarbons in room temperature ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16985-16997.	1.3	7
153	2D/2D Ti <sub>3</sub> C <sub>2</sub> MXene/g-C <sub>3</sub> N <sub>4</sub> nanosheets heterojunction for high efficient CO <sub>2</sub> reduction photocatalyst: Dual effects of urea. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118738.	10.8	417
154	In situ decorated Pd NPs on chitosan-encapsulated Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> -NH <sub>2</sub> as magnetic catalyst in Suzuki-Miyaura coupling and 4-nitrophenol reduction. <i>Carbohydrate Polymers</i> , 2020, 235, 115966.	5.1	169
155	CO <sub>2</sub> capturing, thermo-kinetic principles, synthesis and amine functionalization of covalent organic polymers for CO <sub>2</sub> separation from natural gas: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 77, 103203.	2.1	68
156	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. <i>Chemical Engineering Journal</i> , 2020, 390, 124611.	6.6	108
157	Rapid catalytic degradation of malachite green by MgFe <sub>2</sub> O <sub>4</sub> nanoparticles in presence of H <sub>2</sub> O <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , 2020, 828, 154462.	2.8	54
158	Evolution of the functionalities and structures of biochar in pyrolysis of poplar in a wide temperature range. <i>Bioresource Technology</i> , 2020, 304, 123002.	4.8	104
159	A type-II interband alignment heterojunction architecture of cobalt titanate integrated UiO-66-NH <sub>2</sub> : A visible light mediated photocatalytic approach directed towards Norfloxacin degradation and green energy (Hydrogen) evolution. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 89-105.	5.0	112
160	Evolution of nitrogen/oxygen substituted aromatics from sludge to light and heavy volatiles. <i>Journal of Cleaner Production</i> , 2020, 257, 120327.	4.6	15
161	Recent Progress in Biochar-Based Photocatalysts for Wastewater Treatment: Synthesis, Mechanisms, and Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1019.	1.3	28
162	Mxene-modulated dual-heterojunction generation on a metal-organic framework (MOF) via surface constitution reconstruction for enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2020, 390, 124519.	6.6	124

#	ARTICLE	IF	CITATIONS
163	Current development of geopolymer as alternative adsorbent for heavy metal removal. Environmental Technology and Innovation, 2020, 18, 100684.	3.0	102
164	CdS quantum dots modified surface oxygen vacancy defect ZnO <sub>1-x</sub> TiO <sub>2-x</sub> solid solution sphere as Z-Scheme heterojunctions for efficient visible light-driven photothermal-photocatalytic performance. Journal of Alloys and Compounds, 2020, 826, 154218.	2.8	20
165	Type-II p(SnSe)-n(g-C <sub>3</sub> N <sub>4</sub> ) heterostructure as a fast visible-light photocatalytic material: Boosted by an efficient interfacial charge transfer of p-n heterojunction. Journal of Alloys and Compounds, 2020, 829, 154436.	2.8	42
166	Simultaneous removal of multiple heavy metals from soil by washing with citric acid and ferric chloride. RSC Advances, 2020, 10, 7432-7442.	1.7	25
167	Nitrogen-doped biochar fiber with graphitization from Boehmeria nivea for promoted peroxymonosulfate activation and non-radical degradation pathways with enhancing electron transfer. Applied Catalysis B: Environmental, 2020, 269, 118850.	10.8	449
168	Synthesis of sodium dodecyl sulfate modified BiOBr/magnetic bentonite photocatalyst with Three-dimensional parterre like structure for the enhanced photodegradation of tetracycline and ciprofloxacin. Chemical Engineering Journal, 2020, 388, 124374.	6.6	85
169	Optimization by Using Response Surface Methodology of the Preparation from Plantain Spike of a Micro-/Mesoporous Activated Carbon Designed for Removal of Dyes in Aqueous Solution. Arabian Journal for Science and Engineering, 2020, 45, 7231-7245.	1.7	8
170	Preparation and Characterization of Magnetic Biochar Nanocomposites via a Modified Solvothermal Method and Their Use as Efficient Heterogeneous Fenton-like Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 1809-1821.	1.8	31
171	Biomass-derived porous graphitic carbon materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 5773-5811.	5.2	234
172	Photocatalytic activity and doping effects of BiFeO <sub>3</sub> nanoparticles in model organic dyes. Heliyon, 2020, 6, e03237.	1.4	103
173	Changes in abiotic dissipation rates and bound fractions of antibiotics in biochar-amended soil. Journal of Cleaner Production, 2020, 256, 120314.	4.6	41
174	Recent advances in MXenes supported semiconductors based photocatalysts: Properties, synthesis and photocatalytic applications. Journal of Industrial and Engineering Chemistry, 2020, 85, 1-33.	2.9	107
175	Tolerance mechanism of <i>Trichoderma asperellum</i> to Pb <sup>2+</sup> : response changes of related active ingredients under Pb <sup>2+</sup> stress. RSC Advances, 2020, 10, 5202-5211.	1.7	6
176	Construction of phosphorus-doped carbon nitride/phosphorus and sulfur co-doped carbon nitride isotype heterojunction and their enhanced photoactivity. Journal of Colloid and Interface Science, 2020, 566, 495-504.	5.0	33
177	Biological treatment of biomass gasification wastewater using hydrocarbonoclastic bacterium Rhodococcus opacus in an up-flow packed bed bioreactor with a novel waste-derived nano-biochar based bio-support material. Journal of Cleaner Production, 2020, 256, 120253.	4.6	87
178	EDTA, oxalate, and phosphate ions enhanced reactive oxygen species generation and sulfamethazine removal by zero-valent iron. Journal of Hazardous Materials, 2020, 391, 122210.	6.5	49
179	Effect of aeration rates on enzymatic activity and bacterial community succession during cattle manure composting. Bioresource Technology, 2020, 304, 122928.	4.8	58
180	Carboxylated Nanodiamond-Enhanced Photocatalytic Membranes with Improved Antifouling and Self-Cleaning Properties. Industrial & Engineering Chemistry Research, 2020, 59, 3538-3549.	1.8	34

#	ARTICLE	IF	CITATIONS
181	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.	5.3	140
182	Stacking faults triggered strain engineering of ZIF-67 derived Ni-Co bimetal phosphide for enhanced overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118951.	10.8	76
183	High adsorption capacity and super selectivity for Pb(II) by a novel adsorbent: Nano humboldtine/almandine composite prepared from natural almandine. <i>Chemosphere</i> , 2020, 253, 126650.	4.2	35
184	Comparison of the catalytic properties of Au nanoparticles supported on different two-dimensional carriers. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 142, 109438.	1.9	9
185	Rapid degradation of Rhodamine B using enhanced photocatalytic activity of MoS <sub>2</sub> nanoflowers under concentrated sunlight irradiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 120, 114114.	1.3	20
186	Spatial distribution of heavy metals in the West Dongting Lake floodplain, China. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1256-1265.	1.7	14
187	Preparation of highly-conductive pyrogenic carbon-supported zero-valent iron for enhanced Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2020, 396, 122712.	6.5	81
188	Enhancement of phosphate adsorption during mineral transformation of natural siderite induced by humic acid: Mechanism and application. <i>Chemical Engineering Journal</i> , 2020, 393, 124730.	6.6	43
189	Dual activity of laccase-lysine hybrid organic-inorganic nanoflowers for dye decolorization. <i>Environmental Technology and Innovation</i> , 2020, 19, 100798.	3.0	33
190	Removal performance of aqueous Co(II) by magnetic graphene oxide and adsorption mechanism. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 144, 109483.	1.9	19
191	Hierarchically SrTiO <sub>3</sub> @TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> nanorod heterostructures for enhanced photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24607-24619.	3.8	36
192	Physiochemical characterization and thermal kinetics of lignin recovered from sustainable agrowaste for bioenergy applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4798-4807.	3.8	18
193	Trace metal leaching from quarry by-product-stabilized marine sediments. <i>Marine Georesources and Geotechnology</i> , 2021, 39, 765-777.	1.2	1
194	Progress and future prospects in biochar composites: Application and reflection in the soil environment. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 219-271.	6.6	93
195	Patterns of fungal community succession triggered by C/N ratios during composting. <i>Journal of Hazardous Materials</i> , 2021, 401, 123344.	6.5	66
196	A novel egg shell-based bio formulation for remediation of RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) contaminated soil. <i>Journal of Hazardous Materials</i> , 2021, 401, 123346.	6.5	9
197	Co-immobilization of laccase and ABTS onto amino-functionalized ionic liquid-modified magnetic chitosan nanoparticles for pollutants removal. <i>Journal of Hazardous Materials</i> , 2021, 401, 123353.	6.5	107
198	Two isostructural Ni(II)/Co(II)-based metal-organic frameworks for selective dye adsorption and catalytic cycloaddition of CO <sub>2</sub> with epoxides. <i>Chinese Chemical Letters</i> , 2021, 32, 557-560.	4.8	26

#	ARTICLE	IF	CITATIONS
199	LaO <sub>1.5</sub> surface modification of titanium-substituted hydroxyapatite photocatalyst and effects on 2-propanol photocatalytic decomposition mechanisms. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119658.	10.8	7
200	Magnetic field-enhanced radical intensity for accelerating norfloxacin degradation under FeCu/rGO photo-Fenton catalysis. <i>Chemical Engineering Journal</i> , 2021, 420, 127634.	6.6	22
201	Efficient Photodegradation of Rhodamine B and Tetracycline over Robust and Green g-C <sub>3</sub> N <sub>4</sub> Nanostructures: Supramolecular Design. <i>Journal of Hazardous Materials</i> , 2021, 403, 123703.	6.5	85
202	Carbon nitride based photocatalysts for solar photocatalytic disinfection, can we go further?. <i>Chemical Engineering Journal</i> , 2021, 404, 126540.	6.6	105
203	Recent advances in application of transition metal phosphides for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 405, 126547.	6.6	139
204	Enhanced peroxymonosulfate activation process based on homogenously dispersed iron and nitrogen active sites on a three-dimensional porous carbon framework. <i>Chemical Engineering Journal</i> , 2021, 404, 126537.	6.6	34
205	Potential role of biochar in advanced oxidation processes: A sustainable approach. <i>Chemical Engineering Journal</i> , 2021, 405, 126582.	6.6	129
206	Advances in water treatment technologies for removal of polycyclic aromatic hydrocarbons: Existing concepts, emerging trends, and future prospects. <i>Water Environment Research</i> , 2021, 93, 343-359.	1.3	67
207	Synergic removal of tetracycline using hydrophilic three-dimensional nitrogen-doped porous carbon embedded with copper oxide nanoparticles by coupling adsorption and photocatalytic oxidation processes. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 350-361.	5.0	23
208	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.	6.6	72
209	Facile assembled N, S-codoped corn straw biochar loaded Bi <sub>2</sub> WO <sub>6</sub> with the enhanced electron-rich feature for the efficient photocatalytic removal of ciprofloxacin and Cr(VI). <i>Chemosphere</i> , 2021, 263, 127988.	4.2	63
210	Solar photocatalytic abatement of tetracycline over phosphate oxoanion decorated Bi <sub>2</sub> WO <sub>6</sub> /polyimide composites. <i>Journal of Hazardous Materials</i> , 2021, 403, 123860.	6.5	102
211	Adsorption of ciprofloxacin from water: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 57-77.	2.9	199
212	Effect of cadmium on the sorption of tylosin by polystyrene microplastics. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111255.	2.9	43
213	Occurrence of organic micropollutants and human health risk assessment based on consumption of <i>Amaranthus viridis</i> , Kinshasa in the Democratic Republic of the Congo. <i>Science of the Total Environment</i> , 2021, 754, 142175.	3.9	30
214	Hydrothermal and Pyrolytic Conversion of Biomasses into Catalysts for Advanced Oxidation Treatments. <i>Advanced Functional Materials</i> , 2021, 31, 2006505.	7.8	64
215	Development of mesoporous Bi <sub>2</sub> WO <sub>6</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunctions via soft- and hard-template-assisted procedures for accelerated and reinforced photocatalytic reduction of mercuric cations under vis light irradiation. <i>Ceramics International</i> , 2021, 47, 5003-5012.	2.3	29
216	Treatment of ammonia-embodied wastewater by a transition-metal-based photochemical catalysis strategy. <i>Chemosphere</i> , 2021, 270, 128614.	4.2	2

#	ARTICLE	IF	CITATIONS
217	Metal-organic framework-derived nanomaterials in environment related fields: Fundamentals, properties and applications. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213618.	9.5	94
218	Visible-LED-light-driven photocatalytic degradation of ofloxacin and ciprofloxacin by magnetic biochar modified flower-like Bi <sub>2</sub> WO <sub>6</sub> : The synergistic effects, mechanism insights and degradation pathways. <i>Science of the Total Environment</i> , 2021, 764, 142879.	3.9	83
219	A comprehensive update on antibiotics as an emerging water pollutant and their removal using nano-structured photocatalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104796.	3.3	46
220	Fabrication of Cu <sub>2</sub> O/Bi <sub>2</sub> S <sub>3</sub> heterojunction photocatalysts with enhanced visible light photocatalytic mechanism and degradation pathways of tetracycline. <i>Journal of Molecular Structure</i> , 2021, 1229, 129581.	1.8	40
221	Elucidation of the photocatalytic degradation mechanism of an azo dye under visible light in the presence of cobalt doped TiO <sub>2</sub> nanomaterials. <i>Chemosphere</i> , 2021, 266, 128931.	4.2	64
222	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.	4.6	41
223	Removal of organic pollutants from water by Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> based photocatalytic degradation: A review. <i>Environmental Technology and Innovation</i> , 2021, 21, 101230.	3.0	74
224	Peroxydisulfate activation by atomically-dispersed Fe-N <sub>x</sub> on N-doped carbon: Mechanism of singlet oxygen evolution for nonradical degradation of aqueous contaminants. <i>Chemical Engineering Journal</i> , 2021, 413, 127545.	6.6	102
225	Novel p-n heterojunction Bi <sub>2</sub> O <sub>3</sub> /Ti <sub>3</sub> +TiO <sub>2</sub> photocatalyst enables the complete removal of tetracyclines under visible light. <i>Chemical Engineering Journal</i> , 2021, 417, 128058.	6.6	88
226	Effect of carbonization methods on the properties of tea waste biochars and their application in tetracycline removal from aqueous solutions. <i>Chemosphere</i> , 2021, 267, 129283.	4.2	80
227	Facile sonochemical synthesis of Nanoparticle modified Bi-MnO <sub>x</sub> and Fe <sub>3</sub> O <sub>4</sub> deposited Bi-MnO <sub>x</sub> Nanocomposites for Sensor and Pollutant Degradation Application. <i>Journal of Alloys and Compounds</i> , 2021, 859, 158263.	2.8	6
228	Spatial distribution and influencing factors on the variation of bacterial communities in an urban river sediment. <i>Environmental Pollution</i> , 2021, 272, 115984.	3.7	44
229	Preparation of cigarette butts/coalâ€¢based porous carbon and its catalytic methane decomposition to hydrogen. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2613.	0.8	4
230	Metallic NiSe cocatalyst decorated g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2021, 413, 127474.	6.6	38
231	Photocatalytic degradation of tetracycline antibiotics using delafossite silver ferrite-based Z-scheme photocatalyst: Pathways and mechanism insight. <i>Chemosphere</i> , 2021, 270, 128651.	4.2	95
232	Iron powder activated peroxymonosulfate combined with waste straw to improve sludge dewaterability. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1302-1311.	1.2	8
233	Strategies for enhancing the perylene diimide photocatalytic degradation activity: method, effect factor, and mechanism. <i>Environmental Science: Nano</i> , 2021, 8, 602-618.	2.2	39
234	Photocatalytic and Antibacterial Properties of Ag-CuFe <sub>2</sub> O <sub>4</sub> @WO <sub>3</sub> Magnetic Nanocomposite. <i>Nanomaterials</i> , 2021, 11, 298.	1.9	46

#	ARTICLE	IF	CITATIONS
235	Green synthesis of sulfur-doped $\text{g-C}_3\text{N}_4$ nanosheets for enhanced removal of oxytetracycline under visible-light irradiation and reduction of its nitrosodimethylamine formation potential. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1580-1592.	1.6	10
236	Comparison of adsorption behaviors and mechanisms of methylene blue, $\text{Cd}^{2+}$ , and phenanthrene by modified biochars derived from pomelo peel. <i>Environmental Science and Pollution Research</i> , 2021, 28, 32517-32527.	2.7	9
237	Carrier dynamics of $\text{CdS}/\text{MoS}_2$ heterostructure nanocrystal films affected by annealing effect. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	1
238	Bifunctional $\text{MnFe}_2\text{O}_4$ /chitosan modified biochar composite for enhanced methyl orange removal based on adsorption and photo-Fenton process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126104.	2.3	52
239	Effect of ethanol or lactic acid on volatile fatty acid profile and microbial community in short-term sequentially transfers by ruminal fermented with wheat straw in vitro. <i>Process Biochemistry</i> , 2021, 102, 369-375.	1.8	6
240	Construction of mesoporous $\text{ZnFe}_2\text{O}_4$ -g- $\text{C}_3\text{N}_4$ nanocomposites for enhanced photocatalytic degradation of acridine orange dye under visible light illumination adopting soft- and hard-template-assisted routines. <i>Journal of Materials Research and Technology</i> , 2021, 11, 1260-1271.	2.6	15
241	Enhancing the adsorption function of biochar by mechanochemical graphitization for organic pollutant removal. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	23
242	Photoinduced Enhancement of Uranium Extraction from Seawater by MOF/Black Phosphorus Quantum Dots Heterojunction Anchored on Cellulose Nanofiber Aerogel. <i>Advanced Functional Materials</i> , 2021, 31, 2100106.	7.8	139
243	Recent developments in the photocatalytic applications of covalent organic frameworks: A review. <i>Journal of Cleaner Production</i> , 2021, 291, 125822.	4.6	124
244	Enhanced As(III) transformation and removal with biochar/ $\text{SnS}_2$ /phosphotungstic acid composites: Synergic effect of overcoming the electronic inertness of biochar and $\text{W}_2\text{O}_3(\text{AsO}_4)_2$ (As(V)-POMs) coprecipitation. <i>Journal of Hazardous Materials</i> , 2021, 408, 124961.	6.5	16
245	Enhanced photocatalytic degradation of cationic and anionic dyes by Ag-modified g- $\text{C}_3\text{N}_4$ composite: Insights on different mechanisms under visible light. <i>Journal of Materials Research</i> , 2021, 36, 1549-1560.	1.2	11
246	Removal of 1-Butyl-3-methylimidazolium bromide from an aqueous solution by using a spongy chitosan-activated carbon composite. <i>Colloids and Interface Science Communications</i> , 2021, 42, 100393.	2.0	8
247	Fabrication of porous carbon derived from cotton/polyester waste mixed with oyster shells: Pore-forming process and application for tetracycline removal. <i>Chemosphere</i> , 2021, 270, 129483.	4.2	20
248	Fungal community succession contributes to product maturity during the co-composting of chicken manure and crop residues. <i>Bioresource Technology</i> , 2021, 328, 124845.	4.8	45
249	Biochar application modified growth and physiological parameters of <i>Ocimum ciliatum</i> L. and reduced human risk assessment under cadmium stress. <i>Journal of Hazardous Materials</i> , 2021, 409, 124954.	6.5	27
250	Green superabsorbent nanocomposite hydrogels for high-efficiency adsorption and photo-degradation/reduction of toxic pollutants from waste water. <i>Polymer Testing</i> , 2021, 97, 107134.	2.3	28
251	Facile construction of Z-scheme $\text{AgCl}/\text{Ag}$ -doped-ZIF-8 heterojunction with narrow band gaps for efficient visible-light photocatalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126351.	2.3	35
252	$\text{Bi}_2\text{S}_3@/\text{Ag}_2\text{S}$ nano-heterojunction decorated self-floating carbon fiber cloth and enhanced solar-driven photothermal-photocatalytic performance. <i>Chemosphere</i> , 2021, 271, 129500.	4.2	17

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253	Synergistic photocatalytic-adsorption removal effect of NiFe <sub>2</sub> O <sub>4</sub> -Zn-Al mixed metal oxide composite under visible-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 414, 113268.	2.0	22
254	A polyoxometalate-based self-cleaning smart material with oxygenic activity for water remediation with membrane technology. <i>Applied Materials Today</i> , 2021, 23, 101002.	2.3	10
255	Adsorption and visible-light photocatalytic degradation of organic pollutants by functionalized biochar: Role of iodine doping and reactive species. <i>Environmental Research</i> , 2021, 197, 111026.	3.7	31
256	Mesoporous V <sub>2</sub> O <sub>5</sub> /g-C <sub>3</sub> N <sub>4</sub> Nanocomposites for Promoted Mercury (II) Ions Reduction Under Visible Light. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4209-4221.	1.9	32
257	Effective adsorption of the endocrine disruptor compound bisphenol a from water on surface-modified carbon materials. <i>Applied Surface Science</i> , 2021, 552, 149513.	3.1	32
258	Recent advance of graphene/semiconductor composite nanocatalysts: Synthesis, mechanism, applications and perspectives. <i>Chemical Engineering Journal</i> , 2021, 414, 128795.	6.6	42
259	Facile Synthesis of Thermo-Sensitive Composite Hydrogel with Well Dispersed Ag Nanoparticles for Application in Superior Antibacterial Infections. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 1148-1159.	0.5	4
260	Recent Advances on Porous Materials for Synergetic Adsorption and Photocatalysis. <i>Energy and Environmental Materials</i> , 2022, 5, 711-730.	7.3	30
261	A mechanistic study on removal efficiency of four antibiotics by animal and plant origin precursors-derived biochars. <i>Science of the Total Environment</i> , 2021, 772, 145468.	3.9	40
262	Challenges and opportunities of nutrient recovery from human urine using biochar for fertilizer applications. <i>Journal of Cleaner Production</i> , 2021, 304, 127019.	4.6	43
263	Surface modification induced construction of core-shell homojunction of polymeric carbon nitride for boosted photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 64-72.	5.0	11
264	Novel 2D MBenesâ€™ Synthesis, Structure, and Biotechnological Potential. <i>Advanced Functional Materials</i> , 2021, 31, 2103048.	7.8	67
265	Materials Institute Lavoisier (MIL) based materials for photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213874.	9.5	53
266	Electrochemical degradation of amoxicillin in acidic aqueous medium using TiO <sub>2</sub> -based electrodes modified by oxides of transition metals. <i>Environmental Science and Pollution Research</i> , 2022, 29, 42130-42145.	2.7	6
267	Bismuth-based metalâ€™organic frameworks and their derivatives: Opportunities and challenges. <i>Coordination Chemistry Reviews</i> , 2021, 439, 213902.	9.5	62
268	Fabrication of nanofiltration membrane on MoS <sub>2</sub> modified PVDF substrate for excellent permeability, salt rejection, and structural stability. <i>Chemical Engineering Journal</i> , 2021, 416, 129154.	6.6	46
269	New notion of biochar: A review on the mechanism of biochar applications in advanced oxidation processes. <i>Chemical Engineering Journal</i> , 2021, 416, 129027.	6.6	153
270	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.	4.6	26



#	ARTICLE	IF	CITATIONS
271	Enhancing peroxymonosulfate activation by Co-Fe layered double hydroxide catalysts via compositing with biochar. <i>Chemical Engineering Journal</i> , 2021, 417, 129111.	6.6	92
272	Novel CoWO <sub>4</sub> -Ag <sub>2</sub> MoO <sub>4</sub> NCs: Synthesis, enhanced photocatalytic activity under visible-light irradiation and its antimicrobial activity. <i>Surfaces and Interfaces</i> , 2021, 25, 101237.	1.5	14
273	Hybrid system for iron and manganese reduction from polluted water using adsorption and filtration. <i>Ain Shams Engineering Journal</i> , 2021, 12, 2465-2470.	3.5	7
274	Electronic modulation of NiS-PBA/CNT with boosted water oxidation performance realized by a rapid microwave-assisted in-situ partial sulfidation. <i>Chemical Engineering Journal</i> , 2021, 420, 130481.	6.6	16
275	Ultra-sonication assisted metal chalcogenide modified mesoporous Nickel-cobalt doped manganese oxide nanocomposite fabrication for sono-catalytic dye degradation and mechanism insights. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160072.	2.8	7
276	The Synthesis of Z-Scheme MoS <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterojunction for Enhanced Visible-Light-Driven Photoreduction of Uranium. <i>Catalysis Letters</i> , 2022, 152, 1981-1989.	1.4	10
277	Fundamentals and Design-Led Synthesis of Emulsion-Templated Porous Materials for Environmental Applications. <i>Advanced Science</i> , 2021, 8, e2102540.	5.6	30
278	Wastewater treatment with the advent of TiO <sub>2</sub> endowed photocatalysts and their reaction kinetics with scavenger effect. <i>Journal of Molecular Liquids</i> , 2021, 338, 116479.	2.3	40
279	Facile synthesis of Bi <sub>2</sub> MoO <sub>6</sub> -Ag <sub>2</sub> MoO <sub>4</sub> nanocomposite for the enhanced visible light photocatalytic removal of methylene blue and its antimicrobial application. <i>Journal of Molecular Liquids</i> , 2021, 337, 116350.	2.3	45
280	Photoinhibition and photocatalytic response of surfactant mediated Pt/ZnO nanocomposite. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102458.	1.3	19
281	Evaluation of construction and demolition waste utilization schemes under uncertain environment: A fuzzy heterogeneous multi-criteria decision-making approach. <i>Journal of Cleaner Production</i> , 2021, 313, 127907.	4.6	18
282	Pomelo biochar as an electron acceptor to modify graphitic carbon nitride for boosting visible-light-driven photocatalytic degradation of tetracycline. <i>Chinese Journal of Chemical Engineering</i> , 2022, 48, 1-11.	1.7	25
283	Surfactant-bridged forming of core-shell NaNbO <sub>3</sub> @g-C <sub>3</sub> N <sub>4</sub> microcuboid: An approach to produce semiconductor heterojunction. <i>Open Ceramics</i> , 2021, 7, 100151.	1.0	0
285	One-step synthesis of metallic Bi deposited Bi <sub>2</sub> WO <sub>6</sub> nanoclusters for enhanced photocatalytic performance: An experimental and DFT study. <i>Applied Surface Science</i> , 2021, 559, 149970.	3.1	31
286	Considering photocatalytic activity of Cu <sup>2+</sup> /biochar-doped TiO <sub>2</sub> using corn straw as sacrificial agent in water decomposition to hydrogen. <i>Environmental Science and Pollution Research</i> , 2022, 29, 12261-12281.	2.7	6
287	Integrating plasmonic effect and nano-heterojunction formation for boosted light harvesting and photocatalytic performance using CaWO <sub>4</sub> /Ag <sub>2</sub> MoO <sub>4</sub> and its antibacterial applications. <i>Materials Science in Semiconductor Processing</i> , 2021, 133, 105921.	1.9	10
288	Ferrocene modified g-C <sub>3</sub> N <sub>4</sub> 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.	2.3	32
289	ZnMn <sub>2</sub> O <sub>4</sub> spheres anchored on jute porous carbon for use as a high-performance anode material in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160445.	2.8	40

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290	2D/0D Bi <sub>2</sub> MoO <sub>6</sub> nanosheets/BN quantum dots photocatalysts with enhanced charge separation for efficient elimination of antibiotic. <i>Applied Surface Science</i> , 2021, 562, 150144.	3.1	27
291	Green preparation of amorphous molybdenum sulfide nanocomposite with biochar microsphere and its voltametric sensing platform for smart analysis of baicalin. <i>Journal of Electroanalytical Chemistry</i> , 2021, 898, 115591.	1.9	14
292	One-step hydrothermal synthesis of N-S-QQDs/Bi <sub>2</sub> S <sub>3</sub> microrods with highly photocatalytic performance for Cr(VI) reduction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127109.	2.3	10
293	Synergetic utilization of 3D materials merits and unidirectional electrons transfer of Schottky junction for optimizing optical absorption and charge kinetics. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120278.	10.8	23
294	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.	5.0	48
295	Relying on the non-radical pathways for selective degradation organic pollutants in Fe and Cu co-doped biochar/peroxymonosulfate system: The roles of Cu, Fe, defect sites and ketonic group. <i>Separation and Purification Technology</i> , 2021, 279, 119697.	3.9	39
296	Bi <sub>2</sub> MoO <sub>6</sub> /TiO <sub>2</sub> heterojunction modified with Ag quantum dots: a novel photocatalyst for the efficient degradation of tetracycline hydrochloride. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161582.	2.8	41
297	Recent advances and future applications in electro-adsorption technology: An updated review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106355.	3.3	8
298	In-situ synthesis of biochar modified PbMoO <sub>4</sub> : An efficient visible light-driven photocatalyst for tetracycline removal. <i>Chemosphere</i> , 2021, 284, 131260.	4.2	25
299	Enhancement of Cr(VI) decontamination by irradiated sludge biochar in neutral conditions: Evidence of a possible role of persistent free radicals. <i>Separation and Purification Technology</i> , 2021, 277, 119414.	3.9	15
300	Recent progress of noble metals with tailored features in catalytic oxidation for organic pollutants degradation. <i>Journal of Hazardous Materials</i> , 2022, 422, 126950.	6.5	49
301	Estimation of tetracycline antibiotic photodegradation from wastewater by heterogeneous metal-organic frameworks photocatalysts. <i>Chemosphere</i> , 2022, 287, 132135.	4.2	43
302	Recent intensification strategies of SnO <sub>2</sub> -based photocatalysts: A review. <i>Chemical Engineering Journal</i> , 2022, 427, 131564.	6.6	110
303	Visible-light-driven photocatalytic degradation of ofloxacin by g-C <sub>3</sub> N <sub>4</sub> /NH <sub>2</sub> -MIL-88B(Fe) heterostructure: Mechanisms, DFT calculation, degradation pathway and toxicity evolution. <i>Chemical Engineering Journal</i> , 2022, 427, 131594.	6.6	105
304	One-pot construction of robust BiOCl/ZnO p-n heterojunctions with semi-coherent interfaces toward improving charge separation for photodegradation enhancement. <i>Nanoscale Advances</i> , 2021, 3, 4851-4857.	2.2	18
305	Fabrication of 2D/2D COF/SnNb <sub>2</sub> O <sub>6</sub> nanosheets and their enhanced solar hydrogen production. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1686-1694.	3.0	8
306	Porous graphitic carbon nitride nanomaterials for water treatment. <i>Environmental Science: Nano</i> , 2021, 8, 1835-1862.	2.2	16
307	A rapid green synthesis of Ag/AgCl-NC photocatalyst for environmental applications. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3972-3982.	2.7	31

#	ARTICLE	IF	CITATIONS
308	A power-triggered preparation strategy of nano-structured inorganics: sonosynthesis. <i>Nanoscale Advances</i> , 2021, 3, 2423-2447.	2.2	15
309	Recent advances in surface and interface design of photocatalysts for the degradation of volatile organic compounds. <i>Advances in Colloid and Interface Science</i> , 2020, 284, 102275.	7.0	30
310	Methane decomposition to produce CO-free hydrogen and nano-carbon over metal catalysts: A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7981-8001.	3.8	112
311	A potential natural solar light active photocatalyst using magnetic ZnFe <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> /Cu nanocomposite as a high performance and recyclable platform for degradation of naproxen from aqueous solution. <i>Journal of Cleaner Production</i> , 2020, 268, 122023.	4.6	76
312	Iron (III) and iminodiacetic acid functionalized magnetic peanut husk for the removal of phosphate from solution: Characterization, kinetic and equilibrium studies. <i>Journal of Cleaner Production</i> , 2020, 268, 122191.	4.6	54
313	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.	6.5	45
314	Fabrication of novel type visible-light-driven TiO <sub>2</sub> @MIL-100 (Fe) microspheres with high photocatalytic performance for removal of organic pollutants. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112644.	2.0	30
315	A novel multifunctional adsorbent of pomegranate peel extract and activated anthracite for Mn(VII) and Cr(VI) uptake from solutions: Experiments and theoretical treatment. <i>Journal of Molecular Liquids</i> , 2020, 311, 113169.	2.3	20
316	Fabrication of nitrogen-doped graphene nanosheets anchored with carbon nanotubes for the degradation of tetracycline in saline water. <i>Environmental Research</i> , 2022, 206, 112242.	3.7	15
317	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> , 2022, 807, 151059.	3.9	25
318	Facile fabrication of phosphorylated alkali lignin microparticles for efficient adsorption of antibiotics and heavy metal ions in water. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106574.	3.3	18
319	State of the art on the ultrasonic-assisted removal of environmental pollutants using metal-organic frameworks. <i>Journal of Hazardous Materials</i> , 2022, 424, 127558.	6.5	71
320	Simultaneous Heteroatom Doping and Microstructure Construction by Solid Thermal Melting Method for Enhancing Photoelectrochemical Property of g-C <sub>3</sub> N <sub>4</sub> Electrodes. <i>Separation and Purification Technology</i> , 2021, , 120005.	3.9	7
321	Status of wetland research in China. <i>Marine and Freshwater Research</i> , 2020, 71, 1572.	0.7	2
322	Catalytic performance and periodate activation mechanism of anaerobic sewage sludge-derived biochar. <i>Journal of Hazardous Materials</i> , 2022, 424, 127692.	6.5	39
323	Visible light photocatalytic abatement of tetracycline over unique Z-scheme ZnS/PI composites. <i>Applied Surface Science</i> , 2022, 575, 151798.	3.1	17
324	Controlling the band structure and photocatalytic performance of single atom Ag/C <sub>3</sub> N <sub>4</sub> catalysts by variation of silver concentration. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 302-309.	3.0	20
325	Fabrication of a novel biochar decorated nano-flower-like MoS <sub>2</sub> nanomaterial for the enhanced photodegradation activity of ciprofloxacin: Performance and mechanism. <i>Materials Research Bulletin</i> , 2022, 147, 111650.	2.7	25

#	ARTICLE	IF	CITATIONS
326	Engineered biochar: A way forward to environmental remediation. <i>Fuel</i> , 2022, 311, 122510.	3.4	38
327	Facile fabrication of Bi <sub>2</sub> WO <sub>6</sub> /biochar composites with enhanced charge carrier separation for photodecomposition of dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127945.	2.3	21
328	Comparative study of KF, KCl and KBr doped with graphitic carbon nitride for superior photocatalytic degradation of methylene blue under visible light. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6340-6355.	2.6	23
329	Carbon matrix of biochar from biomass modeling components facilitates electron transfer from zero-valent iron to Cr(VI). <i>Environmental Science and Pollution Research</i> , 2022, 29, 24309-24321.	2.7	16
330	Two-Dimensional Nanomaterials for the Removal of Pharmaceuticals from Wastewater: A Critical Review. <i>Processes</i> , 2021, 9, 2160.	1.3	26
331	Microbial Technologies Employed for Biodegradation of Neonicotinoids in the Agroecosystem. <i>Frontiers in Microbiology</i> , 2021, 12, 759439.	1.5	15
332	Porous biochar supported Ag <sub>3</sub> PO <sub>4</sub> photocatalyst for "two-in-one" synergistic adsorptive-photocatalytic removal of methylene blue under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106753.	3.3	14
333	Promoted visible-light photocatalytic reduction of Hg <sup>2+</sup> over CuAl <sub>2</sub> O <sub>4</sub> -decorated g-C <sub>3</sub> N <sub>4</sub> nanoheterojunctions synthesized by solution process. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106778.	3.3	22
334	Degradation of oxytetracycline by magnetic MOFs heterojunction photocatalyst with persulfate: high stability and wide range. <i>Environmental Science and Pollution Research</i> , 2022, 29, 30019-30029.	2.7	13
335	Construction of a hierarchical ZnIn <sub>2</sub> S <sub>4</sub> /C <sub>3</sub> N <sub>4</sub> heterojunction for the enhanced photocatalytic degradation of tetracycline. <i>Dalton Transactions</i> , 2022, 51, 2323-2330.	1.6	10
336	Development of metal-doping mesoporous biochar catalyst for co-valorizing biomass and plastic waste into valuable hydrocarbons, syngas, and carbons. <i>Fuel Processing Technology</i> , 2022, 227, 107127.	3.7	23
337	Embedding an organic dye into Ti-MCM-48 for direct photocatalytic selective aerobic oxidation of sulfides driven by green light. <i>Chemical Engineering Journal</i> , 2022, 432, 134285.	6.6	8
338	Preparation of metal-free BP/CN photocatalyst with enhanced ability for photocatalytic tetracycline degradation. <i>Chemosphere</i> , 2022, 290, 133317.	4.2	18
339	Hydrochar-mediated photocatalyst Fe <sub>3</sub> O <sub>4</sub> /BiOBr@HC for highly efficient carbamazepine degradation under visible LED light irradiation. <i>Chemical Engineering Journal</i> , 2022, 433, 134492.	6.6	29
340	Adsorption and photocatalysis removal of arsenite, arsenate, and hexavalent chromium in water by the carbonized composite of manganese-crosslinked sodium alginate. <i>Chemosphere</i> , 2022, 292, 133391.	4.2	19
341	The synergetic enhancement of piezo catalytic performance to remove tetracycline by K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> /TiO <sub>2</sub> composite. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163492.	2.8	25
342	Atomically Dispersed Fe-N-C Nanostructures Embedded within Carbon Nanotubes for the Efficient Photodegradation of Multiple Tetracyclines. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
343	MoS <sub>2</sub> "Covalent Organic Framework Composite as a Bifunctional Supporter for the Determination of Trace Nickel by Photochemical Vapor Generation" Microplasma Optical Emission Spectrometry. <i>Analytical Chemistry</i> , 2022, 94, 2288-2297.	3.2	20

#	ARTICLE	IF	CITATIONS
344	Carbon nitride coupled with Ti <sub>3</sub> C <sub>2</sub> -Mxene derived amorphous Ti-peroxo heterojunction for photocatalytic degradation of rhodamine B and tetracycline. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128448.	2.3	16
345	Toward efficient dye degradation and the bactericidal behavior of Mo-doped La <sub>2</sub> O <sub>3</sub> nanostructures. <i>Nanoscale Advances</i> , 2022, 4, 926-942.	2.2	27
346	Periodate activated by manganese oxide/biochar composites for antibiotic degradation in aqueous system: Combined effects of active manganese species and biochar. <i>Environmental Pollution</i> , 2022, 300, 118939.	3.7	51
347	Atomic Fe sites embedded within carbon nanotubes for the efficient photodegradation of multiple tetracyclines. <i>Separation and Purification Technology</i> , 2022, 287, 120530.	3.9	13
348	Preparation of a new green composite based on chitin biochar and ZnFe <sub>2</sub> O <sub>4</sub> for photo-Fenton degradation of Rhodamine B. <i>Journal of Alloys and Compounds</i> , 2022, 901, 163758.	2.8	32
349	Fast cost-effective synthesis of metal ions/biopolymer/silica composites by supramolecular hydrogels crosslink with superior tetracycline sorption performance. <i>Chemosphere</i> , 2022, 294, 133821.	4.2	5
350	Green synthesis of polydopamine functionalized magnetic mesoporous biochar for lipase immobilization and its application in interesterification for novel structured lipids production. <i>Food Chemistry</i> , 2022, 379, 132148.	4.2	16
351	Highly efficient photocatalytic degradation of the emerging pollutant ciprofloxacin <i>via</i> the rational design of a magnetic interfacial junction of mangosteen peel waste-derived 3D graphene hybrid material. <i>Environmental Science: Nano</i> , 2022, 9, 1298-1314.	2.2	16
352	Effects of Different Dissolved Organic Matter on Peroxymonosulfate Activation Over Co-Fe Binary Metal: Experiments and Density Functional Theory. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
353	Ag <sub>3</sub> VO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> /diatomite ternary compound reduces Cr(VI) ion in aqueous solution effectively under visible light. <i>RSC Advances</i> , 2022, 12, 7671-7679.	1.7	7
354	Recent Developments in the Application of Bio-Waste-Derived Adsorbents for the Removal of Methylene Blue from Wastewater: A Review. <i>Polymers</i> , 2022, 14, 783.	2.0	99
355	Recent Advances in Technologies for Removal of Microcystins in Water: a Review. <i>Current Pollution Reports</i> , 2022, 8, 113-127.	3.1	10
356	Recent development in MoS <sub>2</sub> -based nano-photocatalyst for the degradation of pharmaceutically active compounds. <i>Journal of Cleaner Production</i> , 2022, 352, 131506.	4.6	34
357	Tetragonal multilayered ZnO/CuO composites derived from Zn- and Cu-containing metal-organic framework: Effect of calcination temperature on physicochemical properties and photocatalytic activity. <i>Ceramics International</i> , 2022, 48, 18460-18467.	2.3	7
358	Insights into highly effective catalytic persulfate activation on oxygen-functionalized mesoporous carbon for ciprofloxacin degradation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 59013-59026.	2.7	9
359	Photocatalytic reactive oxygen species generation and their mechanisms of action in pollutant removal with biochar supported photocatalysts: A review. <i>Journal of Cleaner Production</i> , 2022, 346, 131155.	4.6	34
360	Integrating CdS and Titanium Oxide Clusters with Molecular Redox Catalysts into Metal-Organic Frameworks Promoting Photocatalytic Efficient H <sub>2</sub> Evolution. <i>ChemCatChem</i> , 0, , .	1.8	1
361	Graphitic biochar with in situ confined magnetic iron oxides via synchronous pyrolysis of lignin as an effective H <sub>2</sub> O <sub>2</sub> activator for fast degradation of organic pollutants. <i>International Journal of Biological Macromolecules</i> , 2022, 205, 329-340.	3.6	11

#	ARTICLE	IF	CITATIONS
362	Improving photocatalytic activity under visible light over a novel food wastes biochar-based BiOBr nanocomposite. <i>Chemosphere</i> , 2022, 297, 134152.	4.2	7
363	Synthesis and visible light photocatalytic performance of HC/BiOBr/Bi <sub>2</sub> TiO <sub>20</sub> microspheres. <i>Chemical Physics Letters</i> , 2022, 797, 139584.	1.2	4
364	Photocatalytic and antibacterial activities of green synthesized Ag doped MgO nanocomposites towards environmental sustainability. <i>Chemosphere</i> , 2022, 297, 134182.	4.2	30
365	Large-Scale Synthesis of n Heterojunction Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Nanostructures as Photocatalysts for Removal of Antibiotics under Visible Light. <i>ACS Applied Nano Materials</i> , 2022, 5, 1296-1307.	2.4	21
366	HeteroJanus Nanofibers as an Ideal Framework for Promoting WaterPollutant Photoreforming Hydrogen Evolution. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	1
367	Manipulating and Revealing the Roles of La and Zr Dopants into ZnTiO <sub>3</sub> Perovskite Toward Heterogeneous Photocatalytic Degradation of Tetracycline Under Visible Light Irradiation. <i>Topics in Catalysis</i> , 2023, 66, 34-40.	1.3	3
368	Strategies for improving the catalytic activity of metal-organic frameworks and derivatives in SR-AOPs: Facing emerging environmental pollutants. <i>Environmental Pollution</i> , 2022, 306, 119386.	3.7	13
369	Biochar-supported nZVI for the removal of Cr(VI) from soil and water: Advances in experimental research and engineering applications. <i>Journal of Environmental Management</i> , 2022, 316, 115211.	3.8	30
370	Sandwich-type electrochemical aptasensor based on Au-modified conductive octahedral carbon architecture and snowflake-like PtCuNi for the sensitive detection of cardiac troponin I. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114431.	5.3	19
371	Photocatalytic Degradation of Recalcitrant Pollutants of Greywater. <i>Catalysts</i> , 2022, 12, 557.	1.6	10
372	One-step solvothermal synthesis of wood flour carbon fiber/BiOBr composites for photocatalytic activation of peroxymonosulfate towards sulfadiazine degradation: Mechanisms comparison between photo, chemical and photo-chemical oxidation processes. <i>Separation and Purification Technology</i> , 2022, 297, 121399.	3.9	10
373	Insight into disinfection byproduct formation potential of aged biochar and its effects during chlorination. <i>Journal of Environmental Management</i> , 2022, 317, 115437.	3.8	5
374	Boosting Holes Generation and O <sub>2</sub> Activation by Bifunctional Nicop Modified Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> for Efficient Photocatalytic Aerobic Oxidation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
375	Carbonaceous materials-a prospective strategy for eco-friendly decontamination of wastewater. , 2022, , 135-168.		0
376	Photocatalytic dye degradation using BiVO <sub>4</sub> paint composite coatings. <i>Materials Advances</i> , 2022, 3, 5796-5806.	2.6	7
377	Kitchen-Waste-Derived Biochar Modified Nanocomposites with Improved Photocatalytic Performances for Degrading Organic Contaminants. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
378	Biorenewable Nanocomposite Materials for Wastewater Treatment. <i>ACS Symposium Series</i> , 0, , 281-311.	0.5	0
379	Ball-milled Bi <sub>2</sub> MoO <sub>6</sub> /biochar composites for synergistic adsorption and photodegradation of methylene blue: Kinetics and mechanisms. <i>Industrial Crops and Products</i> , 2022, 186, 115229.	2.5	24

#	ARTICLE	IF	CITATIONS
380	A comparative study on the activation of persulfate by mackinawite@biochar and pyrite@biochar for sulfamethazine degradation: The role of different natural iron-sulfur minerals doping. Chemical Engineering Journal, 2022, 448, 137620.	6.6	17
381	Urine: Useless or useful "waste"? Results in Engineering, 2022, 16, 100522.	2.2	7
382	Heterogeneous catalytic system of photocatalytic persulfate activation by novel Bi <sub>2</sub> WO <sub>6</sub> coupled magnetic biochar for degradation of ciprofloxacin. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129667.	2.3	10
383	The role of biochar in the photocatalytic treatment of a mixture of Cr(VI) and phenol pollutants: Biochar as a carrier for transferring and storing electrons. Science of the Total Environment, 2022, 844, 157145.	3.9	22
384	Temperature-dependent carbothermally reduced iron and nitrogen doped biochar composites for removal of hexavalent chromium and nitrobenzene. Chemical Engineering Journal, 2022, 450, 138006.	6.6	29
385	Effects of different dissolved organic matter on peroxydisulfate activation over Co-Fe binary metal: Experiments and density functional theory. Chemical Engineering Journal, 2022, 450, 137770.	6.6	10
386	Application of biochar-based photocatalysts for adsorption-(photo)degradation/reduction of environmental contaminants: mechanism, challenges and perspective. Biochar, 2022, 4, .	6.2	114
387	Enhanced visible light-driven photodegradation of tetracycline by salicylic acid-modified graphitic carbon nitride and toxicity assessment. Environmental Science and Pollution Research, 0, , .	2.7	2
388	Laccase Immobilization on Sandwich-Like Heterostructured Nanomaterials for the Degradation of Phenolic Organics with Improved Active Sites and Stability. SSRN Electronic Journal, 0, , .	0.4	0
389	Facile synthesis of chitosan-grafted polyacrylic acid-doped CaO nanoparticle for catalytic and antimicrobial potential. Applied Nanoscience (Switzerland), 2022, 12, 2657-2670.	1.6	5
390	Synthesis of a Z-scheme ternary photocatalyst (Ta <sub>3</sub> N <sub>5</sub> /Ag <sub>3</sub> PO <sub>4</sub> /AgBr) for the enhanced photocatalytic degradation of tetracycline under visible light. Journal of Physics and Chemistry of Solids, 2022, 170, 110962.	1.9	6
391	Kitchen-waste-derived biochar modified nanocomposites with improved photocatalytic performances for degrading organic contaminants. Environmental Research, 2022, 214, 114068.	3.7	4
392	Remediation techniques for elimination of heavy metal pollutants from soil: A review. Environmental Research, 2022, 214, 113918.	3.7	56
393	Immobilization of biogenic silver-copper nanoparticles over arylated biochar from sugarcane bagasse: Method and catalytic performance. Applied Organometallic Chemistry, 2022, 36, .	1.7	5
394	One-pot hydrothermal synthesis of MoS <sub>2</sub> modified sludge biochar for efficient removal of tetracycline from water. Journal of Water Process Engineering, 2022, 49, 103089.	2.6	9
395	The potential of biochar-based catalysts in advanced treatment technologies for efficacious removal of persistent organic pollutants from wastewater: A review. Chemical Engineering Research and Design, 2022, 187, 470-496.	2.7	18
396	Constructing mesoporous Zr-doped SiO <sub>2</sub> onto efficient Z-scheme TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterojunction for antibiotic degradation via adsorption-photocatalysis and mechanism insight. Environmental Research, 2022, 214, 114189.	3.7	21
397	ZnIn <sub>2</sub> S <sub>4</sub> /CoFe <sub>2</sub> O <sub>4</sub> p-n junction-decorated biochar as magnetic recyclable nanocomposite for efficient photocatalytic degradation of ciprofloxacin under simulated sunlight. Separation and Purification Technology, 2022, 303, 122156.	3.9	16

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398	Boosting holes generation and O <sub>2</sub> activation by bifunctional NiCoP modified Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> for efficient photocatalytic aerobic oxidation. Applied Catalysis B: Environmental, 2023, 320, 121978.	10.8	30
399	Continuous inactivation of human adenoviruses in water by a novel g-C <sub>3</sub> N <sub>4</sub> /WO <sub>3</sub> /biochar memory photocatalyst under light-dark cycles. Journal of Hazardous Materials, 2023, 442, 130013.	6.5	17
400	Eco-friendly preparation of Bi <sub>2</sub> O <sub>3</sub> , Ag-Bi <sub>2</sub> O <sub>3</sub> and Ag-Bi <sub>2</sub> O <sub>3</sub> -rGO nanomaterials and their photocatalytic H <sub>2</sub> evolution, dye degradation, nitrite sensing and biological applications. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 435, 114295.	2.0	13
401	Advances in preparation, application in contaminant removal, and environmental risks of biochar-based catalysts: a review. Biochar, 2022, 4, .	6.2	19
402	Machine learning approaches for predicting arsenic adsorption from water using porous metal-organic frameworks. Scientific Reports, 2022, 12, .	1.6	15
403	Enhanced spatial charge separation at surface & interface via GO/MoS <sub>2</sub> /Ag <sub>3</sub> PO <sub>4</sub> ternary Z-scheme heterostructure for nitrogen photo-fixation. Applied Catalysis A: General, 2022, 646, 118850.	2.2	7
404	Catalytic removal of attached tetrabromobisphenol A from microplastic surface by biochar activating oxidation and its impact on potential of disinfection by-products formation. Water Research, 2022, 225, 119191.	5.3	9
405	Life cycle assessment of three typical recycled products from construction and demolition waste. Journal of Cleaner Production, 2022, 376, 134139.	4.6	14
406	Resource utilization of chicken manure to produce biochar for effective removal of levofloxacin hydrochloride through peroxymonosulfate activation: The synergetic function of graphitization and nitrogen functionality. Chemosphere, 2022, 309, 136419.	4.2	13
407	Surface Terminations of MXene: Synthesis, Characterization, and Properties. Symmetry, 2022, 14, 2232.	1.1	23
408	The Fe <sup>0</sup> /Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>3</sub> C@hydrophilic Carbon Composite for LED Light-Assisted, Improved Fenton-Like Catalytic Activity for Dye Degradation. ChemistrySelect, 2022, 7, .	0.7	0
409	Construction of an S-Scheme Ag <sub>2</sub> MoO <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> Nanofiber Heterojunction for Enhanced Photoelectrocatalytic Activity under Visible Light Irradiation. Langmuir, 2022, 38, 13437-13447.	1.6	6
410	Step scheme nickel-aluminium layered double hydroxides/biochar heterostructure photocatalyst for synergistic adsorption and photodegradation of tetracycline. Chemosphere, 2022, 309, 136802.	4.2	20
411	Visible-light-driven g-C <sub>3</sub> N <sub>4</sub> doped CuFe <sub>2</sub> O <sub>4</sub> floating catalyst enhanced peroxymonosulfate activation for sulfamethazine removal via singlet oxygen and high-valent metal-oxo species. Chemical Engineering Journal, 2023, 455, 140198.	6.6	17
412	Structural, Optical and Photocatalytic Properties of Mn Doped ZnO Nanoparticles Used as Photocatalysts for Azo-Dye Degradation under Visible Light. Catalysts, 2022, 12, 1382.	1.6	9
413	Visible-light-driven simultaneous decontamination of multi-antibiotics by facile synthesized BiOCl loaded food wastes biochar. Environmental Pollution, 2023, 316, 120683.	3.7	4
414	A Review on N-Doped Biochar for Oxidative Degradation of Organic Contaminants in Wastewater by Persulfate Activation. International Journal of Environmental Research and Public Health, 2022, 19, 14805.	1.2	4
415	Enhanced Cr(VI) reduction using highly conductive material synthesized by modified chitosan coated with natural iron-manganese minerals. Applied Surface Science, 2023, 611, 155635.	3.1	4



#	ARTICLE	IF	CITATIONS
416	Carbon quantum dots-doped g-C <sub>3</sub> N <sub>4</sub> nanocomposites with enhanced piezoelectric catalytic performance. <i>Composites Communications</i> , 2023, 37, 101466.	3.3	6
417	Remediation competence of nanoparticles amalgamated biochar (nanobiochar/nanocomposite) on pollutants: A review. <i>Environmental Research</i> , 2023, 218, 114947.	3.7	6
418	Construction of zirconium metal-organic polyhedron/silver chloride heterojunction with boosted photocatalytic activity for the degradation of broad-spectrum antibiotics and mechanism insight. <i>Separation and Purification Technology</i> , 2023, 307, 122848.	3.9	5
419	Fabrication of ternary nano-heterojunction via hierarchical deposition of Fe <sup>3+</sup> -Fe <sub>2</sub> O <sub>3</sub> and La <sup>3+</sup> -La <sub>2</sub> S <sub>3</sub> on cubic CoCr <sub>2</sub> O <sub>4</sub> for enhanced photodegradation of doxycycline. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 118, 407-417.	2.9	10
420	Community succession of microbial populations related to C N P S biological transformations regulates product maturity during cow-manure-driven composting. <i>Bioresource Technology</i> , 2023, 369, 128493.	4.8	6
421	Adsorption of dyestuff by nano copper oxide coated alkali metakaoline geopolymer in monolith and powder forms: Kinetics, isotherms and microstructural analysis. <i>Environmental Research</i> , 2023, 218, 115002.	3.7	8
422	A sustainable approach for the multi-dimensional exploitation of mixed biochar based nano-composites. <i>Fuel</i> , 2023, 336, 126930.	3.4	3
423	Piezocatalytic degradation of organic dyes and production of H <sub>2</sub> O <sub>2</sub> with hydroxyapatite. <i>Journal of Alloys and Compounds</i> , 2023, 937, 168382.	2.8	11
424	Molybdenum-doped iron oxide nanostructures synthesized via a chemical co-precipitation route for efficient dye degradation and antimicrobial performance: <i>in silico</i> molecular docking studies. <i>RSC Advances</i> , 2022, 12, 35177-35191.	1.7	15
425	Enhanced Adsorption of Sulfonamides by Attapulgit-Doped Biochar Prepared with Calcination. <i>Molecules</i> , 2022, 27, 8076.	1.7	1
426	Coupled carbon structure and iron species for multiple periodate-based oxidation reaction. <i>Chemical Engineering Journal</i> , 2023, 455, 140560.	6.6	5
427	In situ preparation of highly graphitized N-doped biochar geopolymer composites for efficient catalytic degradation of tetracycline in water by H <sub>2</sub> O <sub>2</sub> . <i>Environmental Research</i> , 2023, 219, 115166.	3.7	19
428	Optimization and Mechanism of Cadmium Removal Using Biochar Obtained from Wetland Emergent Plant <i>Zizania caduciflora</i> . <i>Ground Water Monitoring and Remediation</i> , 2023, 43, 77-89.	0.6	0
429	Carbon-defect-driven persulfate activation for highly efficient degradation of extracellular DNA contaminant: Radical oxidation and electron transfer pathways. <i>Journal of Hazardous Materials</i> , 2023, 447, 130817.	6.5	9
430	MXenes Antibacterial Properties and Applications: A Review and Perspective. <i>Small</i> , 2023, 19, .	5.2	49
431	Induced defect and ZnO nano-flower formation by N, N, dimethylformamide solvent for natural sunlight responsive floating photocatalytic advanced oxidation process. <i>Chemosphere</i> , 2023, 313, 137600.	4.2	7
432	Sandwich-like heterostructured nanomaterials immobilized laccase for the degradation of phenolic pollutants and boosted enzyme stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 660, 130820.	2.3	5
433	Constructing direct Z-scheme heterojunctions of defective MoS <sub>2</sub> -v on carbon nitride nanotubes for high-performance hydrogen peroxide production and iron-free photo-Fenton-like reactions over a wide pH range. <i>Applied Surface Science</i> , 2023, 618, 156656.	3.1	6

#	ARTICLE	IF	CITATIONS
434	Regulating the interfacial charge separation between MoS <sub>2</sub> QDs and sea-urchin graphitic carbon nitride for deep photodegradation of tetracycline under visible light. <i>New Journal of Chemistry</i> , 2023, 47, 6958-6966.	1.4	5
435	Lotus-bud like hexagonal ZnO/g-C <sub>3</sub> N <sub>4</sub> composites for the photodegradation of benzene present in aqueous solution. <i>Inorganic Chemistry Communication</i> , 2023, 150, 110539.	1.8	5
436	Construction of novel OD/2D AgI/CAU-17 heterojunction with excellent photocatalytic performance by in situ deposition-precipitation. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109641.	3.3	3
437	Construction of ternary Bi <sub>2</sub> O <sub>3</sub> /biochar/g-C <sub>3</sub> N <sub>4</sub> heterojunction to accelerate photoinduced carrier separation for enhanced tetracycline photodegradation. <i>Applied Surface Science</i> , 2023, 616, 156509.	3.1	15
438	Solvent-free mechanochemical synthesis of TiO <sub>2</sub> -ethyl cellulose biocomposite for adsorption of tetracycline and organic dyes. <i>Journal of Molecular Liquids</i> , 2023, 378, 121643.	2.3	9
439	In-situ constructed indirect Z-type heterojunction by plasma Bi and BiO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> co-modified with BiOCl@Bi-MOF for enhanced photocatalytic efficiency toward antibiotics. <i>Chemical Engineering Journal</i> , 2023, 464, 142762.	6.6	19
440	Effect of chitosan modification on the properties of magnetic porous biochar and its adsorption performance towards tetracycline and Cu <sup>2+</sup> . <i>Sustainable Chemistry and Pharmacy</i> , 2023, 33, 101057.	1.6	7
441	Electrons of d-orbital (Mn) and p-orbital (N) enhance the photocatalytic degradation of antibiotics by biochar while maintaining biocompatibility: A combined chemical and biological analysis. <i>Journal of Hazardous Materials</i> , 2023, 451, 131083.	6.5	11
442	Microwave-assisted method synthesis of Ag/CNQDs/g-C <sub>3</sub> N <sub>4</sub> with excellent photocatalytic activity for the degradation of norfloxacin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 662, 131001.	2.3	3
443	Carbonyl and defect of metal-free char trigger electron transfer and O <sub>2</sub> in persulfate activation for Aniline aerofloat degradation. <i>Water Research</i> , 2023, 231, 119659.	5.3	35
444	Adsorption and photocatalytic degradation process of oxytetracycline using mesoporous Fe-TiO <sub>2</sub> based on high-resolution mass spectrometry. <i>Chemical Engineering Journal</i> , 2023, 460, 141618.	6.6	17
445	Visible light-driven photocatalytic degradation of Microcystin-LR by Bi <sub>2</sub> WO <sub>6</sub> /Reduced graphene oxide heterojunctions: Mechanistic insight, DFT calculation and degradation pathways. <i>Chemosphere</i> , 2023, 321, 138105.	4.2	10
446	Adsorption modeling of tetracycline removal by multi-walled carbon nanotube functionalized with aspartic acid and poly-pyrrole using Bayesian optimized artificial neural network. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 144, 104743.	2.7	7
447	Construction of a direct Z-scheme CeO <sub>2</sub> /UiO-66-NH <sub>2</sub> heterojunction for boosting photocatalytic organic pollutant degradation and H <sub>2</sub> evolution performance. <i>Dalton Transactions</i> , 2023, 52, 4562-4573.	1.6	6
448	ZIF-67-derived nickel-cobalt phosphide nanocubes/N-doped carbon/nickel form composite for efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 19995-20005.	3.8	11
449	Recent advances in spinel ferrite-based magnetic photocatalysts for efficient degradation of organic pollutants. <i>Water Science and Technology</i> , 2023, 87, 1465-1495.	1.2	5
450	BaTi <sub>0.85</sub> Zr <sub>0.15</sub> O <sub>3</sub> /MIL-101(Fe) nanocomposite in the photodegradation of tetracycline. <i>Optical Materials</i> , 2023, 138, 113679.	1.7	2
451	Facile low-temperature supercritical carbonization method to prepare high-loading nickel single atom catalysts for efficient photodegradation of tetracycline. <i>Journal of Environmental Sciences</i> , 2024, 138, 373-384.	3.2	3

#	ARTICLE	IF	CITATIONS
452	Photocatalytic Degradation of Diclofenac by Nitrogen-Doped Carbon Quantum Dot-Graphitic Carbon Nitride (CNQD). <i>Catalysts</i> , 2023, 13, 735.	1.6	3
453	Adsorption enrichment-localization photocatalyst: Enhanced photooxidation over activated carbon/red phosphorus. <i>Journal of Physics and Chemistry of Solids</i> , 2023, 179, 111385.	1.9	0
457	Valorization of lignocellulosic biomass into sustainable materials for adsorption and photocatalytic applications in water and air remediation. <i>Environmental Science and Pollution Research</i> , 2023, 30, 74544-74574.	2.7	14
467	Biochar-Based Nanocomposites for the Removal of Organic Environmental Contaminants. <i>Advances in Science, Technology and Innovation</i> , 2023, , 85-92.	0.2	0
487	Biochar-Assisted Phytoremediation for Heavy Metals-Contaminated Soils. <i>Environmental Science and Engineering</i> , 2023, , 359-384.	0.1	0
502	Environmental impact of nanomaterials. , 2024, , 25-47.		0