

Guangming Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

1,210
papers

132,368
citations

45

186
h-index

401

278
g-index

1212
all docs

1212
docs citations

1212
times ranked

67696
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of biochar for the removal of pollutants from aqueous solutions. <i>Chemosphere</i> , 2015, 125, 70-85.	4.2	1,324
2	Doping of graphitic carbon nitride for photocatalysis: A review. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 388-406.	10.8	1,194
3	An overview on limitations of TiO ₂ -based particles for photocatalytic degradation of organic pollutants and the corresponding countermeasures. <i>Water Research</i> , 2015, 79, 128-146.	5.3	1,046
4	Removal of cationic dyes from aqueous solution using magnetic multi-wall carbon nanotube nanocomposite as adsorbent. <i>Journal of Hazardous Materials</i> , 2009, 164, 1517-1522.	6.5	928
5	Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. <i>Chemical Engineering Journal</i> , 2016, 284, 582-598.	6.6	919
6	A review of the hydrothermal carbonization of biomass waste for hydrochar formation: Process conditions, fundamentals, and physicochemical properties. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 223-247.	8.2	803
7	Hierarchical assembly of graphene-bridged Ag ₃ PO ₄ /Ag/BiVO ₄ (040) Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced visible-light photoactivity towards tetracycline degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 330-342.	10.8	752
8	Adsorption of chromium (VI) by ethylenediamine-modified cross-linked magnetic chitosan resin: Isotherms, kinetics and thermodynamics. <i>Journal of Hazardous Materials</i> , 2011, 185, 306-314.	6.5	730
9	Bioremediation of soils contaminated with polycyclic aromatic hydrocarbons, petroleum, pesticides, chlorophenols and heavy metals by composting: Applications, microbes and future research needs. <i>Biotechnology Advances</i> , 2015, 33, 745-755.	6.0	706
10	Biochar-based nano-composites for the decontamination of wastewater: A review. <i>Bioresource Technology</i> , 2016, 212, 318-333.	4.8	654
11	Covalent organic framework photocatalysts: structures and applications. <i>Chemical Society Reviews</i> , 2020, 49, 4135-4165.	18.7	649
12	Facile synthesis of amino-functionalized titanium metal-organic frameworks and their superior visible-light photocatalytic activity for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2015, 286, 187-194.	6.5	634
13	Biochar to improve soil fertility. A review. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	633
14	Recent advances in covalent organic frameworks (COFs) as a smart sensing material. <i>Chemical Society Reviews</i> , 2019, 48, 5266-5302.	18.7	630
15	Enhanced activation process of persulfate by mesoporous carbon for degradation of aqueous organic pollutants: Electron transfer mechanism. <i>Applied Catalysis B: Environmental</i> , 2018, 231, 1-10.	10.8	614
16	Impact of humic/fulvic acid on the removal of heavy metals from aqueous solutions using nanomaterials: A review. <i>Science of the Total Environment</i> , 2014, 468-469, 1014-1027.	3.9	605
17	Synthesis and applications of novel graphitic carbon nitride/metal-organic frameworks mesoporous photocatalyst for dyes removal. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 445-454.	10.8	594
18	Chlorinated volatile organic compounds (Cl-VOCs) in environment "sources, potential human health impacts, and current remediation technologies. <i>Environment International</i> , 2014, 71, 118-138.	4.8	586

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19	Simultaneous removal of Cd(II) and ionic dyes from aqueous solution using magnetic graphene oxide nanocomposite as an adsorbent. <i>Chemical Engineering Journal</i> , 2013, 226, 189-200.	6.6	565
20	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , 2019, 48, 488-516.	18.7	564
21	Effects of sediment geochemical properties on heavy metal bioavailability. <i>Environment International</i> , 2014, 73, 270-281.	4.8	553
22	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 273-284.	5.0	552
23	Boron nitride quantum dots decorated ultrathin porous g-C ₃ N ₄ : Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 87-99.	10.8	543
24	In situ synthesis of In ₂ S ₃ @MIL-125(Ti) core-shell microparticle for the removal of tetracycline from wastewater by integrated adsorption and visible-light-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 19-29.	10.8	538
25	Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: Transformation pathways and mechanism insight. <i>Chemical Engineering Journal</i> , 2018, 349, 808-821.	6.6	538
26	Adsorptive removal of methylene blue by rhamnolipid-functionalized graphene oxide from wastewater. <i>Water Research</i> , 2014, 67, 330-344.	5.3	527
27	Facile assembled biochar-based nanocomposite with improved graphitization for efficient photocatalytic activity driven by visible light. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 78-88.	10.8	516
28	Insight into highly efficient simultaneous photocatalytic removal of Cr(VI) and 2,4-dichlorophenol under visible light irradiation by phosphorus doped porous ultrathin g-C ₃ N ₄ nanosheets from aqueous media: Performance and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 343-354.	10.8	513
29	Stabilization of nanoscale zero-valent iron (nZVI) with modified biochar for Cr(VI) removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2017, 332, 79-86.	6.5	497
30	In-situ synthesis of direct solid-state dual Z-scheme WO ₃ /g-C ₃ N ₄ /Bi ₂ O ₃ photocatalyst for the degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 376-385.	10.8	495
31	Biochar as potential sustainable precursors for activated carbon production: Multiple applications in environmental protection and energy storage. <i>Bioresource Technology</i> , 2017, 227, 359-372.	4.8	487
32	Ti ₃ C ₂ MXene/porous g-C ₃ N ₄ interfacial Schottky junction for boosting spatial charge separation in photocatalytic H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117956.	10.8	485
33	Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible light driven. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 202-210.	10.8	478
34	Sustainable efficient adsorbent: Alkali-acid modified magnetic biochar derived from sewage sludge for aqueous organic contaminant removal. <i>Chemical Engineering Journal</i> , 2018, 336, 160-169.	6.6	449
35	Nitrogen-doped biochar fiber with graphitization from <i>Boehmeria nivea</i> for promoted peroxymonosulfate activation and non-radical degradation pathways with enhancing electron transfer. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118850.	10.8	449
36	Metal-free efficient photocatalyst for stable visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 715-725.	10.8	438

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37	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. <i>Advanced Materials</i> , 2018, 30, e1704561.	11.1	431
38	Biological technologies for the remediation of co-contaminated soil. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 1062-1076.	5.1	423
39	BiOX (X=Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <i>Advances in Colloid and Interface Science</i> , 2018, 254, 76-93.	7.0	422
40	Adsorption characteristics and behaviors of graphene oxide for Zn(II) removal from aqueous solution. <i>Applied Surface Science</i> , 2013, 279, 432-440.	3.1	418
41	Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent. <i>Science of the Total Environment</i> , 2018, 627, 235-244.	3.9	418
42	Adsorption of Cd (II) and Zn (II) from aqueous solutions using magnetic hydroxyapatite nanoparticles as adsorbents. <i>Chemical Engineering Journal</i> , 2010, 162, 487-494.	6.6	416
43	Spatial distribution and source identification of heavy metals in surface soils in a typical coal mine city, Lianyuan, China. <i>Environmental Pollution</i> , 2017, 225, 681-690.	3.7	416
44	Recent advances in toxicological research of nanoplastics in the environment: A review. <i>Environmental Pollution</i> , 2019, 252, 511-521.	3.7	416
45	Quaternary ammonium compounds (QACs): A review on occurrence, fate and toxicity in the environment. <i>Science of the Total Environment</i> , 2015, 518-519, 352-362.	3.9	410
46	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO ₄ Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32887-32900.	4.0	407
47	Biosorption of cadmium(II), zinc(II) and lead(II) by <i>Penicillium simplicissimum</i> : Isotherms, kinetics and thermodynamics. <i>Journal of Hazardous Materials</i> , 2008, 160, 655-661.	6.5	406
48	Photocatalytic degradation of ciprofloxacin by a novel Z-scheme CeO ₂ /Ag/AgBr photocatalyst: Influencing factors, possible degradation pathways, and mechanism insight. <i>Journal of Catalysis</i> , 2018, 358, 141-154.	3.1	406
49	Sorption, transport and biodegradation – An insight into bioavailability of persistent organic pollutants in soil. <i>Science of the Total Environment</i> , 2018, 610-611, 1154-1163.	3.9	402
50	Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis. <i>Coordination Chemistry Reviews</i> , 2018, 368, 80-92.	9.5	401
51	Fabrication of CuS/BiVO ₄ (040) binary heterojunction photocatalysts with enhanced photocatalytic activity for Ciprofloxacin degradation and mechanism insight. <i>Chemical Engineering Journal</i> , 2019, 358, 891-902.	6.6	401
52	Facile Hydrothermal Synthesis of Z-Scheme Bi ₂ Fe ₄ O ₉ /Bi ₂ WO ₆ Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18824-18836.	4.0	397
53	Atomic scale g-C ₃ N ₄ /Bi ₂ WO ₆ 2D/2D heterojunction with enhanced photocatalytic degradation of ibuprofen under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 285-294.	10.8	390
54	A novel Ag ₂ O/CeO ₂ heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 701-714.	10.8	389

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55	Bioremediation mechanisms of combined pollution of PAHs and heavy metals by bacteria and fungi: A mini review. <i>Bioresource Technology</i> , 2017, 224, 25-33.	4.8	388
56	Selective prepared carbon nanomaterials for advanced photocatalytic application in environmental pollutant treatment and hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 408-424.	10.8	386
57	Facile synthesis of polypyrrole decorated reduced graphene oxide-Fe ₃ O ₄ magnetic composites and its application for the Cr(VI) removal. <i>Chemical Engineering Journal</i> , 2015, 262, 597-606.	6.6	381
58	Evaluation methods for assessing effectiveness of in situ remediation of soil and sediment contaminated with organic pollutants and heavy metals. <i>Environment International</i> , 2017, 105, 43-55.	4.8	379
59	Magnetic nitrogen-doped sludge-derived biochar catalysts for persulfate activation: Internal electron transfer mechanism. <i>Chemical Engineering Journal</i> , 2019, 364, 146-159.	6.6	375
60	Amorphous MnO ₂ Modified Biochar Derived from Aerobically Composted Swine Manure for Adsorption of Pb(II) and Cd(II). <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5049-5058.	3.2	372
61	(Micro)plastic crisis: Un-ignorable contribution to global greenhouse gas emissions and climate change. <i>Journal of Cleaner Production</i> , 2020, 254, 120138.	4.6	357
62	Exploiting extracellular polymeric substances (EPS) controlling strategies for performance enhancement of biological wastewater treatments: An overview. <i>Chemosphere</i> , 2017, 180, 396-411.	4.2	349
63	Heterogeneous activation of peroxymonosulfate by Fe-Co layered doubled hydroxide for efficient catalytic degradation of Rhodamine B. <i>Chemical Engineering Journal</i> , 2017, 321, 222-232.	6.6	344
64	Novel ternary heterojunction photocatalyst of Ag nanoparticles and g-C ₃ N ₄ nanosheets co-modified BiVO ₄ for wider spectrum visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 133-147.	10.8	343
65	The effects of activated biochar addition on remediation efficiency of co-composting with contaminated wetland soil. <i>Resources, Conservation and Recycling</i> , 2019, 140, 278-285.	5.3	343
66	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
67	Competitive adsorption of Pb(II), Cd(II) and Cu(II) onto chitosan-pyromellitic dianhydride modified biochar. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 355-364.	5.0	342
68	Synergistic effect of artificial enzyme and 2D nano-structured Bi ₂ WO ₆ for eco-friendly and efficient biomimetic photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 52-62.	10.8	340
69	Phosphorus- and Sulfur-Codoped g-C ₃ N ₄ : Facile Preparation, Mechanism Insight, and Application as Efficient Photocatalyst for Tetracycline and Methyl Orange Degradation under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5831-5841.	3.2	337
70	Co-occurrence and interactions of pollutants, and their impacts on soil remediation—A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 1528-1553.	6.6	335
71	Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Fe-Mn binary oxides. <i>Water Research</i> , 2019, 160, 238-248.	5.3	335
72	Precipitation, adsorption and rhizosphere effect: The mechanisms for Phosphate-induced Pb immobilization in soils—A review. <i>Journal of Hazardous Materials</i> , 2017, 339, 354-367.	6.5	327

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73	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. <i>Water Research</i> , 2016, 95, 103-112.	5.3	326
74	Bioremediation of heavy metals by growing hyperaccumulaor endophytic bacterium <i>Bacillus</i> sp. L14. <i>Bioresource Technology</i> , 2010, 101, 8599-8605.	4.8	320
75	Challenges and solutions for biofiltration of hydrophobic volatile organic compounds. <i>Biotechnology Advances</i> , 2016, 34, 1091-1102.	6.0	320
76	Sulfur doped carbon quantum dots loaded hollow tubular g-C3N4 as novel photocatalyst for destruction of <i>Escherichia coli</i> and tetracycline degradation under visible light. <i>Chemical Engineering Journal</i> , 2019, 378, 122132.	6.6	320
77	Megamerger in photocatalytic field: 2D g-C3N4 nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 153-173.	10.8	310
78	Microplastics and associated contaminants in the aquatic environment: A review on their ecotoxicological effects, trophic transfer, and potential impacts to human health. <i>Journal of Hazardous Materials</i> , 2021, 405, 124187.	6.5	308
79	Graphene-based materials: Fabrication, characterization and application for the decontamination of wastewater and wastegas and hydrogen storage/generation. <i>Advances in Colloid and Interface Science</i> , 2013, 195-196, 19-40.	7.0	306
80	Production of char from sewage sludge employing hydrothermal carbonization: Char properties, combustion behavior and thermal characteristics. <i>Fuel</i> , 2016, 176, 110-118.	3.4	306
81	1D porous tubular g-C3N4 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
82	The interactions of composting and biochar and their implications for soil amendment and pollution remediation: a review. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 754-764.	5.1	303
83	The application of different typological and structural MOFs-based materials for the dyes adsorption. <i>Coordination Chemistry Reviews</i> , 2019, 380, 471-483.	9.5	302
84	Are biodegradable plastics a promising solution to solve the global plastic pollution?. <i>Environmental Pollution</i> , 2020, 263, 114469.	3.7	300
85	Changes in heavy metal mobility and availability from contaminated wetland soil remediated with combined biochar-compost. <i>Chemosphere</i> , 2017, 181, 281-288.	4.2	298
86	Various cell architectures of capacitive deionization: Recent advances and future trends. <i>Water Research</i> , 2019, 150, 225-251.	5.3	298
87	Formation of quasi-core-shell In2S3/anatase TiO2@metallic Ti3C2Tx hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 213-225.	10.8	297
88	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , 2018, 247, 537-544.	4.8	297
89	PEI-grafted magnetic porous powder for highly effective adsorption of heavy metal ions. <i>Desalination</i> , 2011, 281, 278-284.	4.0	292
90	Removal of phosphate from aqueous solution by magnetic Feâ€Zr binary oxide. <i>Chemical Engineering Journal</i> , 2011, 171, 448-455.	6.6	290

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91	Plasmonic Bi Metal Deposition and g-C ₃ N ₄ Coating on Bi ₂ WO ₆ Microspheres for Efficient Visible-Light Photocatalysis. ACS Sustainable Chemistry and Engineering, 2017, 5, 1062-1072.	3.2	289
92	Semiconductor/boron nitride composites: Synthesis, properties, and photocatalysis applications. Applied Catalysis B: Environmental, 2018, 238, 6-18.	10.8	289
93	OD/2D interface engineering of carbon quantum dots modified Bi ₂ WO ₆ ultrathin nanosheets with enhanced photoactivity for full spectrum light utilization and mechanism insight. Applied Catalysis B: Environmental, 2018, 222, 115-123.	10.8	288
94	Research on the sustainable efficacy of g-MoS ₂ decorated biochar nanocomposites for removing tetracycline hydrochloride from antibiotic-polluted aqueous solution. Science of the Total Environment, 2019, 648, 206-217.	3.9	287
95	Fabrication of novel magnetic MnFe ₂ O ₄ /bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. Chemosphere, 2019, 224, 910-921.	4.2	287
96	Investigation of the adsorption-reduction mechanisms of hexavalent chromium by ramie biochars of different pyrolytic temperatures. Bioresource Technology, 2016, 218, 351-359.	4.8	286
97	Three-dimensional graphene supported catalysts for organic dyes degradation. Applied Catalysis B: Environmental, 2018, 228, 19-28.	10.8	286
98	Rational design 2D/2D BiOBr/CDs/g-C ₃ N ₄ Z-scheme heterojunction photocatalyst with carbon dots as solid-state electron mediators for enhanced visible and NIR photocatalytic activity: Kinetics, intermediates, and mechanism insight. Journal of Catalysis, 2019, 369, 469-481.	3.1	285
99	Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. Science of the Total Environment, 2017, 574, 1599-1610.	3.9	282
100	Hierarchical porous biochar from shrimp shell for persulfate activation: A two-electron transfer path and key impact factors. Applied Catalysis B: Environmental, 2020, 260, 118160.	10.8	282
101	Investigating the adsorption behavior and the relative distribution of Cd ²⁺ sorption mechanisms on biochars by different feedstock. Bioresource Technology, 2018, 261, 265-271.	4.8	278
102	Simultaneous adsorption of atrazine and Cu (II) from wastewater by magnetic multi-walled carbon nanotube. Chemical Engineering Journal, 2012, 211-212, 470-478.	6.6	272
103	A hydroquinone biosensor using modified core-shell magnetic nanoparticles supported on carbon paste electrode. Biosensors and Bioelectronics, 2007, 22, 2121-2126.	5.3	271
104	Subcellular distribution and chemical forms of cadmium in <i>Bechmeria nivea</i> (L.) Gaud.. Environmental and Experimental Botany, 2008, 62, 389-395.	2.0	269
105	The effects of rice straw biochar on indigenous microbial community and enzymes activity in heavy metal-contaminated sediment. Chemosphere, 2017, 174, 545-553.	4.2	267
106	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. Journal of Colloid and Interface Science, 2017, 493, 17-23.	5.0	267
107	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. ACS Applied Materials & Interfaces, 2018, 10, 21035-21055.	4.0	266
108	Degradation of Lead-Contaminated Lignocellulosic Waste by <i>Phanerochaete chrysosporium</i> and the Reduction of Lead Toxicity. Environmental Science & Technology, 2008, 42, 4946-4951.	4.6	265

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109	Artificial Z-scheme photocatalytic system: What have been done and where to go?. <i>Coordination Chemistry Reviews</i> , 2019, 385, 44-80.	9.5	265
110	Seed germination test for toxicity evaluation of compost: Its roles, problems and prospects. <i>Waste Management</i> , 2018, 71, 109-114.	3.7	264
111	Molecular engineering of polymeric carbon nitride for highly efficient photocatalytic oxytetracycline degradation and H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118970.	10.8	263
112	A GIS-Based Spatial Multi-Criteria Approach for Flood Risk Assessment in the Dongting Lake Region, Hunan, Central China. <i>Water Resources Management</i> , 2011, 25, 3465-3484.	1.9	262
113	“Gold rush” in modern science: Fabrication strategies and typical advanced applications of gold nanoparticles in sensing. <i>Coordination Chemistry Reviews</i> , 2018, 359, 1-31.	9.5	261
114	Removal of 17 β -estradiol by few-layered graphene oxide nanosheets from aqueous solutions: External influence and adsorption mechanism. <i>Chemical Engineering Journal</i> , 2016, 284, 93-102.	6.6	258
115	Biochar for environmental management: Mitigating greenhouse gas emissions, contaminant treatment, and potential negative impacts. <i>Chemical Engineering Journal</i> , 2019, 373, 902-922.	6.6	256
116	Graphene and graphene-based nanocomposites used for antibiotics removal in water treatment: A review. <i>Chemosphere</i> , 2019, 226, 360-380.	4.2	254
117	A novel double Z-scheme photocatalyst Ag ₃ PO ₄ /Bi ₂ S ₃ /Bi ₂ O ₃ with enhanced visible-light photocatalytic performance for antibiotic degradation. <i>Chemical Engineering Journal</i> , 2019, 368, 730-745.	6.6	254
118	Iron Containing Metal-Organic Frameworks: Structure, Synthesis, and Applications in Environmental Remediation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20255-20275.	4.0	250
119	Metal-free carbon materials for persulfate-based advanced oxidation process: Microstructure, property and tailoring. <i>Progress in Materials Science</i> , 2020, 111, 100654.	16.0	250
120	In Situ Grown AgI/Bi ₂ O ₃ /Cl ₂ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4174-4184.	3.2	249
121	Stabilized Nanoscale Zerovalent Iron Mediated Cadmium Accumulation and Oxidative Damage of <i>Boehmeria nivea</i> (L.) Gaudich Cultivated in Cadmium Contaminated Sediments. <i>Environmental Science & Technology</i> , 2017, 51, 11308-11316.	4.6	248
122	Nanoscale zero-valent iron coated with rhamnolipid as an effective stabilizer for immobilization of Cd and Pb in river sediments. <i>Journal of Hazardous Materials</i> , 2018, 341, 381-389.	6.5	248
123	Effects of heavy metals and soil physicochemical properties on wetland soil microbial biomass and bacterial community structure. <i>Science of the Total Environment</i> , 2016, 557-558, 785-790.	3.9	247
124	Electrocoagulation treatment of arsenic in wastewaters: A comprehensive review. <i>Chemical Engineering Journal</i> , 2017, 317, 707-725.	6.6	245
125	Effect of Cu(II) ions on the enhancement of tetracycline adsorption by Fe ₃ O ₄ @SiO ₂ -Chitosan/graphene oxide nanocomposite. <i>Carbohydrate Polymers</i> , 2017, 157, 576-585.	5.1	245
126	Black Phosphorus, a Rising Star 2D Nanomaterial in the Post-Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. <i>Small</i> , 2019, 15, e1804565.	5.2	244

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127	Three dimensional graphene based materials: Synthesis and applications from energy storage and conversion to electrochemical sensor and environmental remediation. <i>Advances in Colloid and Interface Science</i> , 2015, 221, 41-59.	7.0	242
128	Synthesis of surface molecular imprinted TiO ₂ /graphene photocatalyst and its highly efficient photocatalytic degradation of target pollutant under visible light irradiation. <i>Applied Surface Science</i> , 2016, 390, 368-376.	3.1	242
129	Immobilization of Cd in river sediments by sodium alginate modified nanoscale zero-valent iron: Impact on enzyme activities and microbial community diversity. <i>Water Research</i> , 2016, 106, 15-25.	5.3	241
130	Multi-walled carbon nanotube/amino-functionalized MIL-53(Fe) composites: Remarkable adsorptive removal of antibiotics from aqueous solutions. <i>Chemosphere</i> , 2018, 210, 1061-1069.	4.2	241
131	Immobilization of laccase on magnetic bimodal mesoporous carbon and the application in the removal of phenolic compounds. <i>Bioresource Technology</i> , 2012, 115, 21-26.	4.8	240
132	Facile construction of hierarchical flower-like Z-scheme AgBr/Bi ₂ WO ₆ photocatalysts for effective removal of tetracycline: Degradation pathways and mechanism. <i>Chemical Engineering Journal</i> , 2019, 375, 121991.	6.6	237
133	Facile synthesis of Sb ₂ S ₃ /ultrathin g-C ₃ N ₄ sheets heterostructures embedded with g-C ₃ N ₄ quantum dots with enhanced NIR-light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 36-46.	10.8	235
134	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. <i>Coordination Chemistry Reviews</i> , 2019, 388, 63-78.	9.5	235
135	In Situ Grown Single-Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. <i>Small</i> , 2020, 16, e2001634.	5.2	235
136	Biomass accumulation and control strategies in gas biofiltration. <i>Biotechnology Advances</i> , 2010, 28, 531-540.	6.0	234
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