

# Guangming Zeng

## List of Publications by Citations

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1,191  
papers

91,869  
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153  
h-index

228  
g-index

1,212  
ext. papers

111,824  
ext. citations

9.5  
avg, IF

8.76  
L-index

#	Paper	IF	Citations
1191	Application of biochar for the removal of pollutants from aqueous solutions. <i>Chemosphere</i> , <b>2015</b> , 125, 70-85	8.4	989
1190	Removal of cationic dyes from aqueous solution using magnetic multi-wall carbon nanotube nanocomposite as adsorbent. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 164, 1517-22	12.8	843
1189	Doping of graphitic carbon nitride for photocatalysis: A review. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 388-406	21.8	802
1188	An overview on limitations of TiO <sub>2</sub> -based particles for photocatalytic degradation of organic pollutants and the corresponding countermeasures. <i>Water Research</i> , <b>2015</b> , 79, 128-46	12.5	705
1187	Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 582-598	14.7	658
1186	Adsorption of chromium (VI) by ethylenediamine-modified cross-linked magnetic chitosan resin: isotherms, kinetics and thermodynamics. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 185, 306-14	12.8	638
1185	Hierarchical assembly of graphene-bridged Ag <sub>3</sub> PO <sub>4</sub> /Ag/BiVO <sub>4</sub> (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> , <b>2017</b> , 200, 200-210	21.8	597
1184	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> , <b>2015</b> , 33, 745-55	17.8	559
1183	Biochar-based nano-composites for the decontamination of wastewater: A review. <i>Bioresource Technology</i> , <b>2016</b> , 212, 318-333	11	479
1182	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> , <b>2014</b> , 468-469, 1014-27	10.2	478
1181	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> , <b>2015</b> , 286, 187-94	12.8	478
1180	Simultaneous removal of Cd(II) and ionic dyes from aqueous solution using magnetic graphene oxide nanocomposite as an adsorbent. <i>Chemical Engineering Journal</i> , <b>2013</b> , 226, 189-200	14.7	472
1179	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> , <b>2018</b> , 90, 223-247	16.2	467
1178	Synthesis and applications of novel graphitic carbon nitride/metal-organic frameworks mesoporous photocatalyst for dyes removal. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 174-175, 445-454	21.8	465
1177	Adsorptive removal of methylene blue by rhamnolipid-functionalized graphene oxide from wastewater. <i>Water Research</i> , <b>2014</b> , 67, 330-44	12.5	423
1176	In situ synthesis of In <sub>2</sub> S <sub>3</sub> @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> , <b>2016</b> , 186, 19-29	21.8	410
1175	Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible light driven. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 202-210	21.8	394

1174	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 488-516	58.5	390
1173	Chlorinated volatile organic compounds (Cl-VOCs) in environment - sources, potential human health impacts, and current remediation technologies. <i>Environment International</i> , <b>2014</b> , 71, 118-38	12.9	389
1172	Biochar to improve soil fertility. A review. <i>Agronomy for Sustainable Development</i> , <b>2016</b> , 36, 1	6.8	387
1171	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 <sub>3</sub> N <sub>4</sub> nanosheets from aqueous media: Performance and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 200, 342-351	21.8	383
1170	Boron nitride quantum dots decorated ultrathin porous g-C <sub>3</sub> N <sub>4</sub> : Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 245, 87-99	21.8	378
1169	Facile assembled biochar-based nanocomposite with improved graphitization for efficient photocatalytic activity driven by visible light. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 78-88	21.8	370
1168	Biosorption of cadmium(II), zinc(II) and lead(II) by <i>Penicillium simplicissimum</i> : Isotherms, kinetics and thermodynamics. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 160, 655-61	12.8	369
1167	Adsorption of Cd (II) and Zn (II) from aqueous solutions using magnetic hydroxyapatite nanoparticles as adsorbents. <i>Chemical Engineering Journal</i> , <b>2010</b> , 162, 487-494	14.7	367
1166	Effects of sediment geochemical properties on heavy metal bioavailability. <i>Environment International</i> , <b>2014</b> , 73, 270-81	12.9	365
1165	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> , <b>2018</b> , 349, 808-821	14.7	354
1164	Adsorption characteristics and behaviors of graphene oxide for Zn(II) removal from aqueous solution. <i>Applied Surface Science</i> , <b>2013</b> , 279, 432-440	6.7	353
1163	Enhanced activation process of persulfate by mesoporous carbon for degradation of aqueous organic pollutants: Electron transfer mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 231, 1-10	21.8	350
1162	Biochar as potential sustainable precursors for activated carbon production: Multiple applications in environmental protection and energy storage. <i>Bioresource Technology</i> , <b>2017</b> , 227, 359-372	11	347
1161	Biological technologies for the remediation of co-contaminated soil. <i>Critical Reviews in Biotechnology</i> , <b>2017</b> , 37, 1062-1076	9.4	341
1160	Simultaneously efficient adsorption and photocatalytic degradation of tetracycline by Fe-based MOFs. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 519, 273-284	9.3	341
1159	Stabilization of nanoscale zero-valent iron (nZVI) with modified biochar for Cr(VI) removal from aqueous solution. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 332, 79-86	12.8	337
1158	Metal-free efficient photocatalyst for stable visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 715-725	21.8	335
1157	In-situ synthesis of direct solid-state dual Z-scheme WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> O <sub>3</sub> photocatalyst for the degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 227, 376-385	21.8	330

1156	Recent advances in covalent organic frameworks (COFs) as a smart sensing material. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 5266-5302	58.5	326
1155	Enhanced Photocatalytic Degradation of Tetracycline by AgI/BiVO Heterojunction under Visible-Light Irradiation: Mineralization Efficiency and Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32887-32900	9.5	325
1154	Atomic scale g-C <sub>3</sub> N <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> 2D/2D heterojunction with enhanced photocatalytic degradation of ibuprofen under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 285-294	21.8	318
1153	Facile synthesis of polypyrrole decorated reduced graphene oxide/Fe <sub>3</sub> O <sub>4</sub> magnetic composites and its application for the Cr(VI) removal. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 597-606	14.7	305
1152	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> , <b>2018</b> , 627, 235-244	10.2	304
1151	Sorption, transport and biodegradation - An insight into bioavailability of persistent organic pollutants in soil. <i>Science of the Total Environment</i> , <b>2018</b> , 610-611, 1154-1163	10.2	304
1150	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704561	24	301
1149	Selective prepared carbon nanomaterials for advanced photocatalytic application in environmental pollutant treatment and hydrogen production. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 408-424	21.8	300
1148	BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 254, 76-93	14.3	288
1147	Co-occurrence and interactions of pollutants, and their impacts on soil remediation: A review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 1528-1553	11.1	286
1146	Facile Hydrothermal Synthesis of Z-Scheme BiFeO/BiWO Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18824-18836	19.5	284
1145	The effects of activated biochar addition on remediation efficiency of co-composting with contaminated wetland soil. <i>Resources, Conservation and Recycling</i> , <b>2019</b> , 140, 278-285	11.9	282
1144	Fabrication of CuS/BiVO <sub>4</sub> (0 4 0) binary heterojunction photocatalysts with enhanced photocatalytic activity for Ciprofloxacin degradation and mechanism insight. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 891-902	14.7	281
1143	Evaluation methods for assessing effectiveness of in situ remediation of soil and sediment contaminated with organic pollutants and heavy metals. <i>Environment International</i> , <b>2017</b> , 105, 43-55	12.9	275
1142	Synergistic effect of artificial enzyme and 2D nano-structured Bi <sub>2</sub> WO <sub>6</sub> for eco-friendly and efficient biomimetic photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 52-62	21.8	273
1141	A novel Ag <sub>2</sub> O/CeO <sub>2</sub> heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 701-714	21.8	272
1140	Bioremediation mechanisms of combined pollution of PAHs and heavy metals by bacteria and fungi: A mini review. <i>Bioresource Technology</i> , <b>2017</b> , 224, 25-33	11	270
1139	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. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 258, 117956	21.8	269

1138	Photocatalytic degradation of ciprofloxacin by a novel Z-scheme CeO <sub>2</sub> /Ag/AgBr photocatalyst: Influencing factors, possible degradation pathways, and mechanism insight. <i>Journal of Catalysis</i> , <b>2018</b> , 358, 141-154	7.3	265
1137	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> , <b>2013</b> , 195-196, 19-40	14.3	265
1136	Spatial distribution and source identification of heavy metals in surface soils in a typical coal mine city, Lianyuan, China. <i>Environmental Pollution</i> , <b>2017</b> , 225, 681-690	9.3	263
1135	Quaternary ammonium compounds (QACs): a review on occurrence, fate and toxicity in the environment. <i>Science of the Total Environment</i> , <b>2015</b> , 518-519, 352-62	10.2	263
1134	Phosphorus- and Sulfur-Codoped g-C <sub>3</sub> N <sub>4</sub> : 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> , <b>2017</b> , 5, 5831-5841	8.3	260
1133	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. <i>Water Research</i> , <b>2016</b> , 95, 103-12	12.5	260
1132	Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 368, 80-92	23.2	258
1131	Amorphous MnO <sub>2</sub> Modified Biochar Derived from Aerobically Composted Swine Manure for Adsorption of Pb(II) and Cd(II). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5049-5058	8.3	256
1130	Sustainable efficient adsorbent: Alkali-acid modified magnetic biochar derived from sewage sludge for aqueous organic contaminant removal. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 160-169	14.7	256
1129	Removal of phosphate from aqueous solution by magnetic Fe <sub>3</sub> O <sub>4</sub> binary oxide. <i>Chemical Engineering Journal</i> , <b>2011</b> , 171, 448-455	14.7	255
1128	Novel ternary heterojunction photocatalyst of Ag nanoparticles and g-C <sub>3</sub> N <sub>4</sub> nanosheets co-modified BiVO <sub>4</sub> for wider spectrum visible-light photocatalytic degradation of refractory pollutant. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 133-147	21.8	254
1127	PEI-grafted magnetic porous powder for highly effective adsorption of heavy metal ions. <i>Desalination</i> , <b>2011</b> , 281, 278-284	10.3	254
1126	Challenges and solutions for biofiltration of hydrophobic volatile organic compounds. <i>Biotechnology Advances</i> , <b>2016</b> , 34, 1091-1102	17.8	248
1125	A hydroquinone biosensor using modified core-shell magnetic nanoparticles supported on carbon paste electrode. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2121-6	11.8	248
1124	Degradation of lead-contaminated lignocellulosic waste by Phanerochaete chrysosporium and the reduction of lead toxicity. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4946-51	10.3	247
1123	The interactions of composting and biochar and their implications for soil amendment and pollution remediation: a review. <i>Critical Reviews in Biotechnology</i> , <b>2017</b> , 37, 754-764	9.4	246
1122	Bioremediation of heavy metals by growing hyperaccumulaor endophytic bacterium Bacillus sp. L14. <i>Bioresource Technology</i> , <b>2010</b> , 101, 8599-605	11	246
1121	Covalent organic framework photocatalysts: structures and applications. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 4135-4165	58.5	243

1120	Precipitation, adsorption and rhizosphere effect: The mechanisms for Phosphate-induced Pb immobilization in soils-A review. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 339, 354-367	12.8	242
1119	Plasmonic Bi Metal Deposition and g-C3N4 Coating on Bi2WO6 Microspheres for Efficient Visible-Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1062-1072	8.3	238
1118	Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. <i>Science of the Total Environment</i> , <b>2017</b> , 574, 1599-1610	10.2	236
1117	0D/2D interface engineering of carbon quantum dots modified Bi <sub>2</sub> WO <sub>6</sub> ultrathin nanosheets with enhanced photoactivity for full spectrum light utilization and mechanism insight. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 222, 115-123	21.8	233
1116	Exploiting extracellular polymeric substances (EPS) controlling strategies for performance enhancement of biological wastewater treatments: An overview. <i>Chemosphere</i> , <b>2017</b> , 180, 396-411	8.4	231
1115	Sulfur doped carbon quantum dots loaded hollow tubular g-C3N4 as novel photocatalyst for destruction of Escherichia coli and tetracycline degradation under visible light. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122132	14.7	224
1114	Simultaneous adsorption of atrazine and Cu (II) from wastewater by magnetic multi-walled carbon nanotube. <i>Chemical Engineering Journal</i> , <b>2012</b> , 211-212, 470-478	14.7	223
1113	Production of char from sewage sludge employing hydrothermal carbonization: Char properties, combustion behavior and thermal characteristics. <i>Fuel</i> , <b>2016</b> , 176, 110-118	7.1	223
1112	Changes in heavy metal mobility and availability from contaminated wetland soil remediated with combined biochar-compost. <i>Chemosphere</i> , <b>2017</b> , 181, 281-288	8.4	221
1111	Megamerger in photocatalytic field: 2D g-C3N4 nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 240, 153-173	21.8	221
1110	Synthesis of surface molecular imprinted TiO <sub>2</sub> /graphene photocatalyst and its highly efficient photocatalytic degradation of target pollutant under visible light irradiation. <i>Applied Surface Science</i> , <b>2016</b> , 390, 368-376	6.7	218
1109	Semiconductor/boron nitride composites: Synthesis, properties, and photocatalysis applications. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 6-18	21.8	218
1108	Heterogeneous activation of peroxymonosulfate by Fe-Co layered doubled hydroxide for efficient catalytic degradation of Rhoadmine B. <i>Chemical Engineering Journal</i> , <b>2017</b> , 321, 222-232	14.7	217
1107	Subcellular distribution and chemical forms of cadmium in <i>Bechmeria nivea</i> (L.) Gaud.. <i>Environmental and Experimental Botany</i> , <b>2008</b> , 62, 389-395	5.9	217
1106	Three-dimensional graphene supported catalysts for organic dyes degradation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 228, 19-28	21.8	215
1105	Formation of quasi-core-shell In <sub>2</sub> S <sub>3</sub> /anatase TiO <sub>2</sub> @metallic Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 233, 213-225	21.8	211
1104	Biomass accumulation and control strategies in gas biofiltration. <i>Biotechnology Advances</i> , <b>2010</b> , 28, 531-40.8	40.8	211
1103	Investigation of the adsorption-reduction mechanisms of hexavalent chromium by ramie biochars of different pyrolytic temperatures. <i>Bioresource Technology</i> , <b>2016</b> , 218, 351-9	11	211

1102	Immobilization of laccase on magnetic bimodal mesoporous carbon and the application in the removal of phenolic compounds. <i>Bioresource Technology</i> , <b>2012</b> , 115, 21-6	11	210
1101	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> , <b>2020</b> , 269, 118850	21.8	208
1100	Competitive adsorption of Pb(II), Cd(II) and Cu(II) onto chitosan-pyromellitic dianhydride modified biochar. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 506, 355-364	9.3	207
1099	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 493, 17-23	9.3	206
1098	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> , <b>2016</b> , 106, 15-25	12.5	205
1097	Rapid detection of picloram in agricultural field samples using a disposable immunomembrane-based electrochemical sensor. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1207-12	10.3	204
1096	Magnetic nitrogen-doped sludge-derived biochar catalysts for persulfate activation: Internal electron transfer mechanism. <i>Chemical Engineering Journal</i> , <b>2019</b> , 364, 146-159	14.7	203
1095	Risks of neonicotinoid pesticides. <i>Science</i> , <b>2013</b> , 340, 1403	33.3	203
1094	The application of different typological and structural MOFs-based materials for the dyes adsorption. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 380, 471-483	23.2	203
1093	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> , <b>2015</b> , 221, 41-59	14.3	202
1092	Removal of 17 $\beta$ -estradiol by few-layered graphene oxide nanosheets from aqueous solutions: External influence and adsorption mechanism. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 93-102	14.7	201
1091	Synergistic effect of iron doped ordered mesoporous carbon on adsorption-coupled reduction of hexavalent chromium and the relative mechanism study. <i>Chemical Engineering Journal</i> , <b>2014</b> , 239, 114-122	14.7	201
1090	In Situ Grown AgI/Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4174-4184	8.3	200
1089	Gold rush in modern science: Fabrication strategies and typical advanced applications of gold nanoparticles in sensing. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 359, 1-31	23.2	199
1088	The effects of rice straw biochar on indigenous microbial community and enzymes activity in heavy metal-contaminated sediment. <i>Chemosphere</i> , <b>2017</b> , 174, 545-553	8.4	197
1087	Investigating the adsorption behavior and the relative distribution of Cd sorption mechanisms on biochars by different feedstock. <i>Bioresource Technology</i> , <b>2018</b> , 261, 265-271	11	194
1086	Effectiveness and mechanisms of phosphate adsorption on iron-modified biochars derived from waste activated sludge. <i>Bioresource Technology</i> , <b>2018</b> , 247, 537-544	11	194
1085	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> , <b>2018</b> , 341, 381-389	12.8	193

1084	A GIS-Based Spatial Multi-Criteria Approach for Flood Risk Assessment in the Dongting Lake Region, Hunan, Central China. <i>Water Resources Management</i> , <b>2011</b> , 25, 3465-3484	3.7	193
1083	Recent advances in toxicological research of nanoplastics in the environment: A review. <i>Environmental Pollution</i> , <b>2019</b> , 252, 511-521	9.3	190
1082	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 &amp; Technology</i> , <b>2017</b> , 51, 11308-11316	10.3	187
1081	Effects of physico-chemical parameters on the bacterial and fungal communities during agricultural waste composting. <i>Bioresource Technology</i> , <b>2011</b> , 102, 2950-6	11	187
1080	Iron Containing Metal-Organic Frameworks: Structure, Synthesis, and Applications in Environmental Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20255-20275	9.5	186
1079	Facile synthesis of Sb <sub>2</sub> S <sub>3</sub> /ultrathin g-C <sub>3</sub> N <sub>4</sub> sheets heterostructures embedded with g-C <sub>3</sub> N <sub>4</sub> quantum dots with enhanced NIR-light photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 193, 36-46	21.8	185
1078	Rational design 2D/2D BiOBr/CDs/g-C <sub>3</sub> N <sub>4</sub> Z-scheme heterojunction photocatalyst with carbon dots as solid-state electron mediators for enhanced visible and NIR photocatalytic activity: Kinetics, intermediates, and mechanism insight. <i>Journal of Catalysis</i> , <b>2019</b> , 369, 469-481	7.3	185
1077	Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Fe-Mn binary oxides. <i>Water Research</i> , <b>2019</b> , 160, 238-248	12.5	183
1076	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> , <b>2020</b> , 184, 116200	12.5	181
1075	Current progress in biosensors for heavy metal ions based on DNAzymes/DNA molecules functionalized nanostructures: A review. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 280-294	8.5	180
1074	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21035-21055	9.5	179
1073	Effect of Cu(II) ions on the enhancement of tetracycline adsorption by FeO@SiO <sub>2</sub> -Chitosan/graphene oxide nanocomposite. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 576-585	10.3	177
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1071	A novel double Z-scheme photocatalyst Ag <sub>3</sub> PO <sub>4</sub> /Bi <sub>2</sub> S <sub>3</sub> /Bi <sub>2</sub> O <sub>3</sub> with enhanced visible-light photocatalytic performance for antibiotic degradation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 368, 730-745	14.7	174
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1069	Photocatalytic Decontamination of Wastewater Containing Organic Dyes by Metal-Organic Frameworks and their Derivatives. <i>ChemCatChem</i> , <b>2017</b> , 9, 41-64	5.2	174
1068	Various cell architectures of capacitive deionization: Recent advances and future trends. <i>Water Research</i> , <b>2019</b> , 150, 225-251	12.5	174
1067	Enhanced photocatalytic degradation of norfloxacin in aqueous Bi <sub>2</sub> WO <sub>6</sub> dispersions containing nonionic surfactant under visible light irradiation. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 306, 295-304	12.8	173



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1065	Facile construction of novel direct solid-state Z-scheme AgI/BiOBr photocatalysts for highly effective removal of ciprofloxacin under visible light exposure: Mineralization efficiency and mechanisms. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 522, 82-94	9.3	169
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1060	Fabrication of novel magnetic MnFeO/bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. <i>Chemosphere</i> , <b>2019</b> , 224, 910-921	8.4	168
1059	Multi-walled carbon nanotube/amino-functionalized MIL-53(Fe) composites: Remarkable adsorptive removal of antibiotics from aqueous solutions. <i>Chemosphere</i> , <b>2018</b> , 210, 1061-1069	8.4	167
1058	Research on the sustainable efficacy of g-MoS decorated biochar nanocomposites for removing tetracycline hydrochloride from antibiotic-polluted aqueous solution. <i>Science of the Total Environment</i> , <b>2019</b> , 648, 206-217	10.2	167
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1052	Graphene and graphene-based nanocomposites used for antibiotics removal in water treatment: A review. <i>Chemosphere</i> , <b>2019</b> , 226, 360-380	8.4	161
1051	In-situ deposition of gold nanoparticles onto polydopamine-decorated g-CN for highly efficient reduction of nitroaromatics in environmental water purification. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 534, 357-369	9.3	160
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1049	A novel algal biofilm membrane photobioreactor for attached microalgae growth and nutrients removal from secondary effluent. <i>Bioresource Technology</i> , <b>2015</b> , 179, 8-12	11	159

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953	Influence of sewage sludge-based activated carbon and temperature on the liquefaction of sewage sludge: yield and composition of bio-oil, immobilization and risk assessment of heavy metals. <i>Bioresource Technology</i> , <b>2014</b> , 159, 72-9	11	115
952	Cr(VI) removal from aqueous solution using biochar modified with Mg/Al-layered double hydroxide intercalated with ethylenediaminetetraacetic acid. <i>Bioresource Technology</i> , <b>2019</b> , 276, 127-132	11	115
951	Multiply structural optimized strategies for bismuth oxyhalide photocatalysis and their environmental application. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 1025-1045	14.7	114
950	Mesoporous carbon nitride based biosensor for highly sensitive and selective analysis of phenol and catechol in compost bioremediation. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 61, 519-25	11.8	114
949	Recent advances in biochar-based catalysts: Properties, applications and mechanisms for pollution remediation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 380-403	14.7	113
948	Efficiency of biochar and compost (or composting) combined amendments for reducing Cd, Cu, Zn and Pb bioavailability, mobility and ecological risk in wetland soil. <i>RSC Advances</i> , <b>2015</b> , 5, 34541-34548	3.7	113
947	Factors influencing degradation of trichloroethylene by sulfide-modified nanoscale zero-valent iron in aqueous solution. <i>Water Research</i> , <b>2018</b> , 135, 1-10	12.5	113
946	Rhamnolipid stabilized nano-chlorapatite: Synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 343, 332-339	12.8	113
945	Understanding the impact of cationic polyacrylamide on anaerobic digestion of waste activated sludge. <i>Water Research</i> , <b>2018</b> , 130, 281-290	12.5	112
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941	Effects of calcium at toxic concentrations of cadmium in plants. <i>Planta</i> , <b>2017</b> , 245, 863-873	4.7	111

940	Immobilization of laccase on hollow mesoporous carbon nanospheres: Noteworthy immobilization, excellent stability and efficacious for antibiotic contaminants removal. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 362, 318-326	12.8	111
939	Experimental study on Hg <sup>0</sup> removal from flue gas over columnar MnO <sub>x</sub> -CeO <sub>2</sub> /activated coke. <i>Applied Surface Science</i> , <b>2015</b> , 333, 59-67	6.7	110
938	Multivariate relationships between microbial communities and environmental variables during co-composting of sewage sludge and agricultural waste in the presence of PVP-AgNPs. <i>Bioresource Technology</i> , <b>2018</b> , 261, 10-18	11	110
937	Core-shell Ag <sub>2</sub> CrO <sub>4</sub> /N-GQDs@g-C <sub>3</sub> N <sub>4</sub> composites with anti-photocorrosion performance for enhanced full-spectrum-light photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 239, 525-536	21.8	110
936	Cooperative catalytic performance of bimetallic Ni-Au nanocatalyst for highly efficient hydrogenation of nitroaromatics and corresponding mechanism insight. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118035	21.8	110
935	Grafting of $\beta$ -cyclodextrin to magnetic graphene oxide via ethylenediamine and application for Cr(VI) removal. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 166-73	10.3	110
934	Synergistic adsorption and reduction of hexavalent chromium using highly uniform polyaniline/magnetic mesoporous silica composite. <i>Chemical Engineering Journal</i> , <b>2014</b> , 254, 302-312	14.7	110
933	Photocatalytic degradation of sulfamethazine using a direct Z-Scheme AgI/BiVO <sub>4</sub> photocatalyst: Mineralization activity, degradation pathways and promoted charge separation mechanism. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 385, 121508	12.8	110
932	Responses of bacterial community and functional marker genes of nitrogen cycling to biochar, compost and combined amendments in soil. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 8583-91	5.7	110
931	Enhanced adsorptive removal of p-nitrophenol from water by aluminum metal-organic framework/reduced graphene oxide composite. <i>Scientific Reports</i> , <b>2016</b> , 6, 25638	4.9	109
930	Advanced photocatalytic Fenton-like process over biomimetic hemin-Bi <sub>2</sub> WO <sub>6</sub> with enhanced pH. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 93, 184-192	5.3	109
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926	Au nanoparticles decorated on activated coke via a facile preparation for efficient catalytic reduction of nitrophenols and azo dyes. <i>Applied Surface Science</i> , <b>2019</b> , 473, 578-588	6.7	108
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924	Integrating hierarchical bioavailability and population distribution into potential eco-risk assessment of heavy metals in road dust: A case study in Xiandao District, Changsha city, China. <i>Science of the Total Environment</i> , <b>2016</b> , 541, 969-976	10.2	107
923	Aged refuse enhances anaerobic digestion of waste activated sludge. <i>Water Research</i> , <b>2017</b> , 123, 724-733	2.5	107



922	Novel p-n heterojunction BiOI/CeO photocatalyst for wider spectrum visible-light photocatalytic degradation of refractory pollutants. <i>Dalton Transactions</i> , <b>2017</b> , 46, 4982-4993	4.3	106
921	Tetracycline absorbed onto nitilotriacetic acid-functionalized magnetic graphene oxide: Influencing factors and uptake mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 485, 269-279	9.3	106
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919	An efficient and green pretreatment to stimulate short-chain fatty acids production from waste activated sludge anaerobic fermentation using free nitrous acid. <i>Chemosphere</i> , <b>2016</b> , 144, 160-7	8.4	105
918	Relative contributions of archaea and bacteria to microbial ammonia oxidation differ under different conditions during agricultural waste composting. <i>Bioresource Technology</i> , <b>2011</b> , 102, 9026-32	11	105
917	Effects of modified zeolite on the removal and stabilization of heavy metals in contaminated lake sediment using BCR sequential extraction. <i>Journal of Environmental Management</i> , <b>2016</b> , 178, 63-69	7.9	105
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907	Photodeposition of metal sulfides on titanium metal-organic frameworks for excellent visible-light-driven photocatalytic Cr(VI) reduction. <i>RSC Advances</i> , <b>2015</b> , 5, 32531-32535	3.7	102
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826	Speciation and environmental risk assessment of heavy metal in bio-oil from liquefaction/pyrolysis of sewage sludge. <i>Chemosphere</i> , <b>2015</b> , 120, 645-52	8.4	82
825	Nanostructured core-shell electrode materials for electrochemical capacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 331, 408-425	8.9	82
824	Micro(nano)plastics: Unignorable vectors for organisms. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 139, 328-331	6.7	82
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820	Hydrothermal carbonisation of sewage sludge for char production with different waste biomass: Effects of reaction temperature and energy recycling. <i>Energy</i> , <b>2017</b> , 127, 167-174	7.9	80
819	Powerful combination of g-CN and LDHs for enhanced photocatalytic performance: A review of strategy, synthesis, and applications. <i>Advances in Colloid and Interface Science</i> , <b>2019</b> , 272, 101999	14.3	80
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817	Metal-based quantum dots: synthesis, surface modification, transport and fate in aquatic environments and toxicity to microorganisms. <i>RSC Advances</i> , <b>2016</b> , 6, 78595-78610	3.7	80
816	Effect of vermicomposting on concentration and speciation of heavy metals in sewage sludge with additive materials. <i>Bioresource Technology</i> , <b>2016</b> , 218, 867-73	11	80
815	Inactivation performance and mechanism of <i>Escherichia coli</i> in aqueous system exposed to iron oxide loaded graphene nanocomposites. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 276, 66-76	12.8	80

814	Tailored indium sulfide-based materials for solar-energy conversion and utilization. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2019</b> , 38, 1-26	16.4	80
813	A facile band alignment of polymeric carbon nitride isotype heterojunctions for enhanced photocatalytic tetracycline degradation. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2604-2617	7.1	80
812	Surfactant-assisted synthesis of photocatalysts: Mechanism, synthesis, recent advances and environmental application. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 429-451	14.7	79
811	Integrating priority areas and ecological corridors into national network for conservation planning in China. <i>Science of the Total Environment</i> , <b>2018</b> , 626, 22-29	10.2	79
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807	Synthesis and characterization of 2D/0D g-C <sub>3</sub> N <sub>4</sub> /CdS-nitrogen doped hollow carbon spheres (NHCs) composites with enhanced visible light photodegradation activity for antibiotic. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 479-493	14.7	78
806	An efficient adsorbent: Simultaneous activated and magnetic ZnO doped biochar derived from camphor leaves for ciprofloxacin adsorption. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121511	11	78
805	The effect of several activated biochars on Cd immobilization and microbial community composition during in-situ remediation of heavy metal contaminated sediment. <i>Chemosphere</i> , <b>2018</b> , 208, 655-664	8.4	78
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695	Application of silver phosphate-based photocatalysts: Barriers and solutions. <i>Chemical Engineering Journal</i> , <b>2019</b> , 366, 339-357	14.7	61
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686	Preparation, performances and mechanisms of magnetic <i>Saccharomyces cerevisiae</i> bionanocomposites for atrazine removal. <i>Chemosphere</i> , <b>2018</b> , 200, 380-387	8.4	59
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683	Preparation of melamine sponge decorated with silver nanoparticles-modified graphene for water disinfection. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 488, 26-38	9.3	59
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