

# Jun Hou

## List of Publications by Citations

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186  
papers

5,939  
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42  
h-index

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192  
ext. papers

7,358  
ext. citations

7.7  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
186	Kinetics and thermodynamics of adsorption of methylene blue by a magnetic graphene-carbon nanotube composite. <i>Applied Surface Science</i> , <b>2014</b> , 290, 116-124	6.7	249
185	Synthesis of novel 2D-2D p-n heterojunction BiOBr/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> composite photocatalyst with enhanced photocatalytic performance under both UV and visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 194, 157-168	21.8	208
184	Distinct community structure and microbial functions of biofilms colonizing microplastics. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 2395-2402	10.2	204
183	The effect of excess Zn on mineral nutrition and antioxidative response in rapeseed seedlings. <i>Chemosphere</i> , <b>2009</b> , 75, 1468-76	8.4	166
182	Visible light activated photocatalytic degradation of tetracycline by a magnetically separable composite photocatalyst: Graphene oxide/magnetite/cerium-doped titania. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 467, 129-139	9.3	146
181	Photocatalytic degradation of tetrabromobisphenol A by a magnetically separable graphene/TiO <sub>2</sub> composite photocatalyst: Mechanism and intermediates analysis. <i>Chemical Engineering Journal</i> , <b>2015</b> , 264, 113-124	14.7	126
180	Significantly enhanced visible light photocatalytic efficiency of phosphorus doped TiO with surface oxygen vacancies for ciprofloxacin degradation: Synergistic effect and intermediates analysis. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 351, 196-205	12.8	120
179	A one-pot method for the preparation of graphene/Bi <sub>2</sub> MoO <sub>6</sub> hybrid photocatalysts that are responsive to visible-light and have excellent photocatalytic activity in the degradation of organic pollutants. <i>Carbon</i> , <b>2012</b> , 50, 5256-5264	10.4	116
178	Metabolic adaptations to ammonia-induced oxidative stress in leaves of the submerged macrophyte <i>Vallisneria spiralis</i> (Lour.) Hara. <i>Aquatic Toxicology</i> , <b>2008</b> , 87, 88-98	5.1	116
177	Effect of CuO nanoparticles on the production and composition of extracellular polymeric substances and physicochemical stability of activated sludge flocs. <i>Bioresource Technology</i> , <b>2015</b> , 176, 65-70	11	111
176	Combining Heterojunction Engineering with Surface Cocatalyst Modification To Synergistically Enhance the Photocatalytic Hydrogen Evolution Performance of Cadmium Sulfide Nanorods. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7670-7677	8.3	107
175	Effect of oxygen vacancy on enhanced photocatalytic activity of reduced ZnO nanorod arrays. <i>Applied Surface Science</i> , <b>2015</b> , 325, 112-116	6.7	103
174	Noble-metal-free nickel phosphide modified CdS/CN nanorods for dramatically enhanced photocatalytic hydrogen evolution under visible light irradiation. <i>Dalton Transactions</i> , <b>2017</b> , 46, 13793-13801	4.3	103
173	Insights into the short-term effects of CeO nanoparticles on sludge dewatering and related mechanism. <i>Water Research</i> , <b>2017</b> , 118, 93-103	12.5	98
172	Phosphate group grafted twinned BiPO <sub>4</sub> with significantly enhanced photocatalytic activity: Synergistic effect of improved charge separation efficiency and redox ability. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 234, 90-99	21.8	88
171	Effects of CeO <sub>2</sub> nanoparticles on production and physicochemical characteristics of extracellular polymeric substances in biofilms in sequencing batch biofilm reactor. <i>Bioresource Technology</i> , <b>2015</b> , 194, 91-8	11	86
170	Inhibitory effects of ZnO nanoparticles on aerobic wastewater biofilms from oxygen concentration profiles determined by microelectrodes. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 276, 164-70	12.8	85

169	Distribution of metals in water and suspended particulate matter during the resuspension processes in Taihu Lake sediment, China. <i>Quaternary International</i> , <b>2013</b> , 286, 94-102	2	78
168	Preparation, characterization, photocatalytic properties of titania hollow sphere doped with cerium. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 178, 517-21	12.8	78
167	Fabrication of novel p-n heterojunction BiOI/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> composite photocatalysts for enhanced photocatalytic performance under visible light irradiation. <i>Dalton Transactions</i> , <b>2016</b> , 45, 7986-97	4.3	77
166	Preparation of graphene-carbon nanotube-TiO <sub>2</sub> composites with enhanced photocatalytic activity for the removal of dye and Cr (VI). <i>Applied Catalysis A: General</i> , <b>2014</b> , 473, 83-89	5.1	76
165	Effects of Pb stress on nutrient uptake and secondary metabolism in submerged macrophyte <i>Vallisneria spiralis</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 1297-303	7	75
164	Preparation of graphene oxide-Ag <sub>3</sub> PO <sub>4</sub> composite photocatalyst with high visible light photocatalytic activity. <i>Applied Surface Science</i> , <b>2013</b> , 271, 265-270	6.7	70
163	Salicylic acid involved in the regulation of nutrient elements uptake and oxidative stress in <i>Vallisneria spiralis</i> (Lour.) Hara under Pb stress. <i>Chemosphere</i> , <b>2011</b> , 84, 136-42	8.4	70
162	Interactions between vegetation, water flow and sediment transport: A review. <i>Journal of Hydrodynamics</i> , <b>2015</b> , 27, 24-37	3.3	65
161	Investigation on the adsorption and desorption behaviors of antibiotics by degradable MPs with or without UV ageing process. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123363	12.8	64
160	Response of wastewater biofilm to CuO nanoparticle exposure in terms of extracellular polymeric substances and microbial community structure. <i>Science of the Total Environment</i> , <b>2017</b> , 579, 588-597	10.2	61
159	Preparation, characterization and photocatalytic activity of the neodymium-doped TiO <sub>2</sub> hollow spheres. <i>Applied Surface Science</i> , <b>2010</b> , 257, 227-231	6.7	61
158	Graphene and TiO <sub>2</sub> co-modified flower-like Bi <sub>2</sub> O <sub>3</sub> /CO <sub>3</sub> : A novel multi-heterojunction photocatalyst with enhanced photocatalytic activity. <i>Applied Surface Science</i> , <b>2015</b> , 355, 411-418	6.7	58
157	Enhanced photoelectrocatalytic activity for dye degradation by graphene-titania composite film electrodes. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 223-224, 79-83	12.8	58
156	Effects of Ag and AgS nanoparticles on denitrification in sediments. <i>Water Research</i> , <b>2018</b> , 137, 28-36	12.5	57
155	Excess Zn alters the nutrient uptake and induces the antioxidative responses in submerged plant <i>Hydrilla verticillata</i> (L.f.) Royle. <i>Chemosphere</i> , <b>2009</b> , 76, 938-45	8.4	57
154	Preparation of CdS nanoparticle loaded flower-like Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> heterojunction photocatalysts with enhanced visible light photocatalytic activity. <i>Dalton Transactions</i> , <b>2015</b> , 44, 11321-30	4.3	55
153	Effects of CeO <sub>2</sub> nanoparticles on biological nitrogen removal in a sequencing batch biofilm reactor and mechanism of toxicity. <i>Bioresource Technology</i> , <b>2015</b> , 191, 73-8	11	55
152	In situ surface engineering of ultrafine Ni <sub>2</sub> P nanoparticles on cadmium sulfide for robust hydrogen evolution. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5406-5415	5.5	53

151	Sediment resuspension under action of wind in Taihu Lake, China. <i>International Journal of Sediment Research</i> , <b>2015</b> , 30, 48-62	3	48
150	Acute effects of nanoplastics and microplastics on periphytic biofilms depending on particle size, concentration and surface modification. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113300	9.3	47
149	Preparation of cerium and nitrogen co-doped titania hollow spheres with enhanced visible light photocatalytic performance. <i>Powder Technology</i> , <b>2011</b> , 210, 203-207	5.2	45
148	Aggregation and removal of copper oxide (CuO) nanoparticles in wastewater environment and their effects on the microbial activities of wastewater biofilms. <i>Bioresource Technology</i> , <b>2016</b> , 216, 537-44 <sup>1</sup>		45
147	Responses of wastewater biofilms to chronic CeO nanoparticles exposure: Structural, physicochemical and microbial properties and potential mechanism. <i>Water Research</i> , <b>2018</b> , 133, 208-217 <sup>12.5</sup>		44
146	Enhanced stability and dissolution of CuO nanoparticles by extracellular polymeric substances in aqueous environment. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	43
145	Iodide-Induced Fragmentation of Polymerized Hydrophilic Carbon Nitride for High-Performance Quasi-Homogeneous Photocatalytic H <sub>2</sub> O Production. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25546-25550	16.4	43
144	In-situ growth of Ag <sub>3</sub> VO <sub>4</sub> nanoparticles onto BiOCl nanosheet to form a heterojunction photocatalyst with enhanced performance under visible light irradiation. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 1-7	5.7	40
143	Antioxidant enzyme activities as biomarkers of fluvial biofilm to ZnO NPs ecotoxicity and the Integrated Biomarker Responses (IBR) assessment. <i>Ecotoxicology and Environmental Safety</i> , <b>2016</b> , 133, 10-7	7	40
142	Bismuth oxychloride modified titanium phosphate nanoplates: A new p-n type heterostructured photocatalyst with high activity for the degradation of different kinds of organic pollutants. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 476, 71-78	9.3	40
141	Degradation of Tetrabromobisphenol A by Sulfidated Nanoscale Zerovalent Iron in a Dynamic Two-Step Anoxic/Oxic Process. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8105-8114	10.3	39
140	Construction of silver iodide/silver/bismuth tantalate Z-scheme photocatalyst for effective visible light degradation of organic pollutants. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 190-200	9.3	39
139	Investigation on graphene and Pt co-modified CdS nanowires with enhanced photocatalytic hydrogen evolution activity under visible light irradiation. <i>Dalton Transactions</i> , <b>2015</b> , 44, 16372-82	4.3	37
138	Algal growth and utilization of phosphorus studied by combined mono-culture and co-culture experiments. <i>Environmental Pollution</i> , <b>2017</b> , 220, 274-285	9.3	37
137	Preparation, characterization and photocatalytic activity of a novel composite photocatalyst: ceria-coated activated carbon. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 184, 1-5	12.8	37
136	Effect of alginate on the aggregation kinetics of copper oxide nanoparticles (CuO NPs): bridging interaction and hetero-aggregation induced by Ca(2+). <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 11611-9	5.1	36
135	Chlorpyrifos and 3,5,6-trichloro-2-pyridinol degradation in zero valent iron coupled anaerobic system: Performances and mechanisms. <i>Chemical Engineering Journal</i> , <b>2018</b> , 353, 254-263	14.7	35
134	Application of zero valent iron coupling with biological process for wastewater treatment: a review. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2017</b> , 16, 667-693	13.9	35

133	Enhanced photocatalytic properties of the 3D flower-like Mg-Al layered double hydroxides decorated with Ag <sub>2</sub> CO <sub>3</sub> under visible light illumination. <i>Materials Research Bulletin</i> , <b>2016</b> , 80, 23-29	5.1	34
132	Effects of ZnO nanoparticles and Zn(2+) on fluvial biofilms and the related toxicity mechanisms. <i>Science of the Total Environment</i> , <b>2016</b> , 544, 230-7	10.2	34
131	The effect of flow velocity on the distribution and composition of extracellular polymeric substances in biofilms and the detachment mechanism of biofilms. <i>Water Science and Technology</i> , <b>2014</b> , 69, 825-32	2.2	34
130	Effects of CeO nanoparticles on sludge aggregation and the role of extracellular polymeric substances - Explanation based on extended DLVO. <i>Environmental Research</i> , <b>2016</b> , 151, 698-705	7.9	33
129	Effect of UV irradiation on the aggregation of TiO <sub>2</sub> in an aquatic environment: Influence of humic acid and pH. <i>Environmental Pollution</i> , <b>2016</b> , 212, 178-187	9.3	32
128	Nanoparticle tracking analysis versus dynamic light scattering: Case study on the effect of Ca and alginate on the aggregation of cerium oxide nanoparticles. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 360, 319-328	12.8	32
127	Assessment of mobilization of labile phosphorus and iron across sediment-water interface in a shallow lake (Hongze) based on in situ high-resolution measurement. <i>Environmental Pollution</i> , <b>2016</b> , 219, 873-882	9.3	32
126	Shift in bacterioplankton diversity and structure: Influence of anthropogenic disturbances along the Yarlung Tsangpo River on the Tibetan Plateau, China. <i>Scientific Reports</i> , <b>2017</b> , 7, 12529	4.9	31
125	Photoelectrocatalytic determination of chemical oxygen demand under visible light using Cu <sub>2</sub> O-loaded TiO <sub>2</sub> nanotube arrays electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 181, 1-8	8.5	31
124	Effects of CeO, CuO, and ZnO nanoparticles on physiological features of <i>Microcystis aeruginosa</i> and the production and composition of extracellular polymeric substances. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 226-235	5.1	30
123	Construction of a composite photocatalyst with significantly enhanced photocatalytic performance through combination of homo-junction with hetero-junction. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 486-498	5.5	29
122	Adsorption of perfluorooctane sulfonate on soils: Effects of soil characteristics and phosphate competition. <i>Chemosphere</i> , <b>2017</b> , 168, 1383-1388	8.4	28
121	In situ high-resolution evaluation of labile arsenic and mercury in sediment of a large shallow lake. <i>Science of the Total Environment</i> , <b>2016</b> , 541, 83-91	10.2	27
120	Modeling the Effects of Hydrodynamic Regimes on Microbial Communities within Fluvial Biofilms: Combining Deterministic and Stochastic Processes. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12869-78	10.3	27
119	Adsorption behavior of lead on aquatic sediments contaminated with cerium dioxide nanoparticles. <i>Environmental Pollution</i> , <b>2016</b> , 219, 416-424	9.3	27
118	Aggregation, sedimentation, and dissolution of CuO and ZnO nanoparticles in five waters. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 31240-31249	5.1	27
117	Effects of iron on growth, antioxidant enzyme activity, bound extracellular polymeric substances and microcystin production of <i>Microcystis aeruginosa</i> FACHB-905. <i>Ecotoxicology and Environmental Safety</i> , <b>2016</b> , 132, 231-9	7	26
116	Effects of biofilm colonization on the sinking of microplastics in three freshwater environments. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125370	12.8	26

115	Fabrication of p-type BiOCl/n-type La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> facet-coupling heterostructure with enhanced photocatalytic performance. <i>RSC Advances</i> , <b>2016</b> , 6, 48599-48609	3.7	26
114	The use of zero-valent iron (ZVI) microbe technology for wastewater treatment with special attention to the factors influencing performance: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 877-907	11.1	25
113	Effects of cerium oxide nanoparticles on the species and distribution of phosphorus in enhanced phosphorus removal sequencing batch biofilm reactor. <i>Bioresource Technology</i> , <b>2017</b> , 227, 393-397	11	25
112	Impacts of CuO nanoparticles on nitrogen removal in sequencing batch biofilm reactors after short-term and long-term exposure and the functions of natural organic matter. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 22116-22125	5.1	25
111	The effect of anthropogenic impoundment on dissolved organic matter characteristics and copper binding affinity: Insights from fluorescence spectroscopy. <i>Chemosphere</i> , <b>2017</b> , 188, 424-433	8.4	25
110	Distinct microbial metabolic activities of biofilms colonizing microplastics in three freshwater ecosystems. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123577	12.8	25
109	Transport, retention, and long-term release behavior of polymer-coated silver nanoparticles in saturated quartz sand: The impact of natural organic matters and electrolyte. <i>Environmental Pollution</i> , <b>2017</b> , 229, 49-59	9.3	24
108	Co-adsorption of perfluorooctane sulfonate and phosphate on boehmite: Influence of temperature, phosphate initial concentration and pH. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 137, 71-77	7	24
107	A BiOBr/CoNi layered double hydroxide nanocomposite with excellent adsorption and photocatalytic properties. <i>RSC Advances</i> , <b>2015</b> , 5, 54613-54621	3.7	24
106	Modeling of sediment and heavy metal transport in Taihu Lake, China. <i>Journal of Hydrodynamics</i> , <b>2013</b> , 25, 379-387	3.3	24
105	Effects of Ag NPs on denitrification in suspended sediments via inhibiting microbial electron behaviors. <i>Water Research</i> , <b>2020</b> , 171, 115436	12.5	24
104	Low concentrations of copper oxide nanoparticles alter microbial community structure and function of sediment biofilms. <i>Science of the Total Environment</i> , <b>2019</b> , 653, 705-713	10.2	23
103	Effect of TiO <sub>2</sub> and CeO <sub>2</sub> nanoparticles on the metabolic activity of surficial sediment microbial communities based on oxygen microelectrodes and high-throughput sequencing. <i>Water Research</i> , <b>2018</b> , 129, 287-296	12.5	23
102	Effects of titanium dioxide nanoparticles on algal and bacterial communities in periphytic biofilms. <i>Environmental Pollution</i> , <b>2019</b> , 251, 407-414	9.3	22
101	Effects of pH and natural organic matter (NOM) on the adsorptive removal of CuO nanoparticles by periphyton. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 7696-704	5.1	22
100	Preparation of graphene oxide-loaded Ag <sub>3</sub> PO <sub>4</sub> @AgCl and its photocatalytic degradation of methylene blue and O <sub>2</sub> evolution activity under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 1016-1025	6.7	22
99	Synthesis, characterization and photocatalytic activity of BiOBr/AC composite photocatalyst. <i>Composites Part B: Engineering</i> , <b>2014</b> , 59, 96-100	10	22
98	Transport behavior of micro polyethylene particles in saturated quartz sand: Impacts of input concentration and physicochemical factors. <i>Environmental Pollution</i> , <b>2020</b> , 263, 114499	9.3	21

97	ZnO nanorod arrays co-loaded with Au nanoparticles and reduced graphene oxide: Synthesis, characterization and photocatalytic application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 492, 71-78	5.1	21
96	Effects of silver sulfide nanoparticles on the microbial community structure and biological activity of freshwater biofilms. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2899-2908	7.1	21
95	Interpretation of the disparity in harvesting efficiency of different types of <i>Microcystis aeruginosa</i> using polyethylenimine (PEI)-coated magnetic nanoparticles. <i>Algal Research</i> , <b>2018</b> , 29, 257-265	5	20
94	Modeling the Biodegradation of Bacterial Community Assembly Linked Antibiotics in River Sediment Using a Deterministic-Stochastic Combined Model. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8788-98	10.3	20
93	Effects of carbon nanotubes on physicochemical properties and sulfamethoxazole adsorption of sediments with or without aging processes. <i>Chemical Engineering Journal</i> , <b>2017</b> , 310, 317-327	14.7	20
92	In situ, high resolution ZrO-Chelex DGT for the investigation of iron-coupled inactivation of arsenic in sediments by macrozoobenthos bioturbation and hydrodynamic interactions. <i>Science of the Total Environment</i> , <b>2016</b> , 562, 451-462	10.2	19
91	Preparation of a magnetic graphene oxide/Ag <sub>3</sub> PO <sub>4</sub> composite photocatalyst with enhanced photocatalytic activity under visible light irradiation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2014</b> , 45, 1080-1086	5.3	19
90	Towards a better understanding on aggregation behavior of CeO nanoparticles in different natural waters under flow disturbance. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 343, 235-244	12.8	18
89	Long-term effects of CuO nanoparticles on the surface physicochemical properties of biofilms in a sequencing batch biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 9629-9639	5.7	18
88	Heavy metal pollution status and ecological risks of sediments under the influence of water transfers in Taihu Lake, China. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 2653-2666	5.1	18
87	Investigation on Ce-doped TiO <sub>2</sub> -coated BDD composite electrode with high photoelectrocatalytic activity under visible light irradiation. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 1423-1423	5.1	18
86	Influence of CeO NPs on biological phosphorus removal and bacterial community shifts in a sequencing batch biofilm reactor with the differential effects of molecular oxygen. <i>Environmental Research</i> , <b>2016</b> , 151, 21-29	7.9	18
85	Removing specific extracellular organic matter from algal bloom water by Tanfloc flocculation: Performance and mechanisms. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 65-74	8.3	18
84	Influence of silver nanoparticles on benthic oxygen consumption of microbial communities in freshwater sediments determined by microelectrodes. <i>Environmental Pollution</i> , <b>2017</b> , 224, 771-778	9.3	17
83	Changes in <i>Microcystis aeruginosa</i> cell integrity and variation in microcystin-LR and proteins during Tanfloc flocculation and floc storage. <i>Science of the Total Environment</i> , <b>2018</b> , 626, 264-273	10.2	17
82	Transport and long-term release behavior of polymer-coated silver nanoparticles in saturated quartz sand: The impacts of input concentration, grain size and flow rate. <i>Water Research</i> , <b>2017</b> , 127, 86-95	12.5	16
81	Zero valent iron supported biological denitrification for farmland drainage treatments with low organic carbon: Performance and potential mechanisms. <i>Science of the Total Environment</i> , <b>2019</b> , 689, 1044-1053	10.2	16
80	Long term effects of cerium dioxide nanoparticles on the nitrogen removal, micro-environment and community dynamics of a sequencing batch biofilm reactor. <i>Bioresource Technology</i> , <b>2017</b> , 245, 573-580	11	16

79	Adsorption and desorption behaviors of antibiotics by tire wear particles and polyethylene microplastics with or without aging processes. <i>Science of the Total Environment</i> , <b>2021</b> , 771, 145451	10.2	16
78	Effects of Nanoplastics on Freshwater Biofilm Microbial Metabolic Functions as Determined by BIOLOG ECO Microplates. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	16
77	Influence of extracellular polymeric substances on cell-NPs heteroaggregation process and toxicity of cerium dioxide NPs to <i>Microcystis aeruginosa</i> . <i>Environmental Pollution</i> , <b>2018</b> , 242, 1206-1216	9.3	15
76	Preparation of graphene-modified TiO <sub>2</sub> nanorod arrays with enhanced photocatalytic activity by a solvothermal method. <i>Materials Letters</i> , <b>2013</b> , 101, 41-43	3.3	15
75	The performance of chitosan/montmorillonite nanocomposite during the flocculation and floc storage processes of <i>Microcystis aeruginosa</i> cells. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 11148-61	5.1	15
74	Preparation and enhanced photocatalytic performance of Sn ion modified titania hollow spheres. <i>Materials Letters</i> , <b>2011</b> , 65, 3278-3280	3.3	15
73	Microbial carbon metabolic functions of biofilms on plastic debris influenced by the substrate types and environmental factors. <i>Environment International</i> , <b>2020</b> , 143, 106007	12.9	15
72	Effects of silver nanoparticles on coupled nitrification-denitrification in suspended sediments. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 389, 122130	12.8	14
71	Impact of macrozoobenthic bioturbation and wind fluctuation interactions on net methylmercury in freshwater lakes. <i>Water Research</i> , <b>2017</b> , 124, 320-330	12.5	14
70	Process Optimization for Microcystin-LR Adsorption onto Nano-sized Montmorillonite K10: Application of Response Surface Methodology. <i>Water, Air, and Soil Pollution</i> , <b>2014</b> , 225, 1	2.6	13
69	Effects of zero valent iron on nitrate removal in anaerobic bioreactor with various carbon-to-nitrate ratios: Bio-electrochemical properties, energy regulation strategies and biological response mechanisms. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129646	14.7	13
68	Strategies and relative mechanisms to attenuate the bioaccumulation and biotoxicity of ceria nanoparticles in wastewater biofilms. <i>Bioresource Technology</i> , <b>2018</b> , 265, 102-109	11	12
67	Photocatalytic performance of Gd ion modified titania porous hollow spheres under visible light. <i>Materials Letters</i> , <b>2010</b> , 64, 1003-1006	3.3	12
66	Optimization of cyanobacterial harvesting and extracellular organic matter removal utilizing magnetic nanoparticles and response surface methodology: A comparative study. <i>Algal Research</i> , <b>2020</b> , 45, 101756	5	12
65	Insights into spatial effects of ceria nanoparticles on oxygen mass transfer in wastewater biofilms: Interfacial microstructure, in-situ microbial activity and metabolism regulation mechanism. <i>Water Research</i> , <b>2020</b> , 176, 115731	12.5	11
64	Nitrogen Distribution and Potential Mobility in Sediments of Three Typical Shallow Urban Lakes in China. <i>Environmental Engineering Science</i> , <b>2009</b> , 26, 1511-1521	2	11
63	Investigation on the adsorption and desorption behaviors of heavy metals by tire wear particles with or without UV ageing processes. <i>Environmental Research</i> , <b>2021</b> , 195, 110858	7.9	11
62	Influence of shear forces on the aggregation and sedimentation behavior of cerium dioxide (CeO <sub>2</sub> ) nanoparticles under different hydrochemical conditions. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	11



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