Peifang Wang

List of Publications by Year in descending order

263 papers	9,806 citations	41258 49 h-index	66788 78 g-index
266 all docs	266 docs citations	266 times ranked	9059 citing authors

#	Article	IF	Citations
1	Photogeochemistry of particulate organic matter in aquatic systems: A review. Science of the Total Environment, 2022, 806, 150467.	3.9	13
2	Phytoremediation of cadmium-contaminated sediment using Hydrilla verticillata and Elodea canadensis harbor two same keystone rhizobacteria Pedosphaeraceae and Parasegetibacter. Chemosphere, 2022, 286, 131648.	4.2	22
3	How dam construction affects the activity of alkaline phosphatases in reservoir sediments: A study of two highly regulated rivers. Environmental Research, 2022, 207, 112236.	3.7	6
4	Effects of long-term perfluorooctane sulfonate (PFOS) exposure on activated sludge performance, composition, and its microbial community. Environmental Pollution, 2022, 295, 118684.	3.7	14
5	Plasma nickel nanoparticle photothermic assisted bimetallic sulfide degradation performance of typical neonicotinoid pesticides. Journal of Alloys and Compounds, 2022, 897, 163215.	2.8	6
6	Understanding the mechanism of interfacial interaction enhancing photodegradation rate of pollutants at molecular level: Intermolecular Ï€-Ï€ interactions favor electrons delivery. Journal of Hazardous Materials, 2022, 430, 128386.	6.5	39
7	The role of fine root morphology in nitrogen uptake by riparian plants. Plant and Soil, 2022, 472, 527-542.	1.8	9
8	Boosting 2eâ^' oxygen reduction reaction in garland carbon nitride with carbon defects for high-efficient photocatalysis-self-Fenton degradation of 2,4-dichlorophenol. Applied Catalysis B: Environmental, 2022, 307, 121185.	10.8	118
9	Insight into microbial degradation of hexabromocyclododecane (HBCD) in lake sediments under different hydrodynamic conditions. Science of the Total Environment, 2022, 827, 154358.	3.9	8
10	Light alters microbiota and electron transport: Evidence for enhanced mesophilic digestion of municipal sludge. Water Research, 2022, 217, 118447.	5.3	14
11	Abundant microbial communities act as more sensitive bio-indicators for ecological evaluation of copper mine contamination than rare taxa in river sediments. Environmental Pollution, 2022, 305, 119310.	3.7	10
12	Covalent-anion-driven self-assembled cadmium/ molybdenum sulfide hybrids for efficient nitenpyram degradation. Journal of Environmental Management, 2022, 316, 115269.	3.8	3
13	Directing Charge Transfer in a Chemicalâ€Bonded BaTiO₃@ReS₂ Schottky Heterojunction for Piezoelectric Enhanced Photocatalysis. Advanced Materials, 2022, 34, e2202508.	11.1	98
14	Exposure to nanoplastic induces cell damage and nitrogen inhibition of activated sludge: Evidence from bacterial individuals and groups. Environmental Pollution, 2022, 306, 119471.	3.7	19
15	Unraveling the Mechanism on Ultrahigh Efficiency Photocatalytic H₂O₂ Generation for Dualâ€Heteroatom Incorporated Polymeric Carbon Nitride. Advanced Functional Materials, 2022, 32, .	7.8	100
16	Surface Complex and Nonradical Pathways Contributing to High-Efficiency Degradation of Perfluorooctanoic Acid on Oxygen-Deficient In₂O₃ Derived from an In-Based Metal Organic Framework. ACS ES&T Water, 2022, 2, 1344-1352.	2.3	7
17	Spin-related symmetry breaking induced by half-disordered hybridization in BixEr2-xRu2O7 pyrochlores for acidic oxygen evolution. Nature Communications, 2022, 13, .	5.8	66
18	Stable isotope analyses of nitrogen source and preference for ammonium versus nitrate of riparian plants during the plant growing season in Taihu Lake Basin. Science of the Total Environment, 2021, 763, 143029.	3.9	18

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19	Effects of rising atmospheric CO2 levels on physiological response of cyanobacteria and cyanobacterial bloom development: A review. Science of the Total Environment, 2021, 754, 141889.	3.9	23
20	Anthropogenic disturbances on distribution and sources of pharmaceuticals and personal care products throughout the Jinsha River Basin, China. Environmental Research, 2021, 198, 110449.	3.7	27
21	From source to sink: Review and prospects of microplastics in wetland ecosystems. Science of the Total Environment, 2021, 758, 143633.	3.9	77
22	Characteristics of transmission light in tetracycline hydrochloride polluted wastewater and the response of g-C3N4 under different transmission spectral range during the photodegradation process. Chemosphere, 2021, 263, 128196.	4.2	9
23	Recharged Catalyst with Memristive Nitrogen Reduction Activity through Learning Networks of Spiking Neurons. Journal of the American Chemical Society, 2021, 143, 5378-5385.	6.6	56
24	How sediment bacterial community shifts along the urban river located in mining city. Environmental Science and Pollution Research, 2021, 28, 42300-42312.	2.7	8
25	Selective recovery of protonated dyes from dye wastewater by pH-responsive BCN material. Chemical Engineering Journal, 2021, 412, 128532.	6.6	40
26	Effects of polystyrene nanoplastics on extracellular polymeric substance composition of activated sludge: The role of surface functional groups. Environmental Pollution, 2021, 279, 116904.	3.7	33
27	Mechanisms of photochemical release of dissolved organic matter and iron from resuspended sediments. Journal of Environmental Sciences, 2021, 104, 288-295.	3.2	8
28	Long-term effects of decabromodiphenyl ether on denitrification in eutrophic lake sediments: Different sensitivity of six-type denitrifying bacteria. Science of the Total Environment, 2021, 774, 145147.	3.9	8
29	Deciphering the effects of CeO2 nanoparticles on Escherichia coli in the presence of ferrous and sulfide ions: Physicochemical transformation-induced toxicity and detoxification mechanisms. Journal of Hazardous Materials, 2021, 413, 125300.	6.5	9
30	Spin-state reconfiguration induced by alternating magnetic field for efficient oxygen evolution reaction. Nature Communications, 2021, 12, 4827.	5.8	147
31	Distinct strategies of abundant and rare bacterioplankton in river-reservoir system: Evidence from a 2800Âkm plateau river. Environmental Research, 2021, 199, 111418.	3.7	12
32	Spatial distribution and solubilization characteristics of metal(loid)s in riparian soils within reservoirs along the middle Jinsha River. Journal of Soils and Sediments, 2021, 21, 3515-3527.	1.5	4
33	Iodideâ€Induced Fragmentation of Polymerized Hydrophilic Carbon Nitride for Highâ€Performance Quasiâ€Homogeneous Photocatalytic H₂O₂ Production. Angewandte Chemie - International Edition, 2021, 60, 25546-25550.	7.2	251
34	Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) in Surface Water of China: National Exposure Distributions and Probabilistic Risk Assessment. Archives of Environmental Contamination and Toxicology, 2021, 81, 470-481.	2.1	12
35	Anthropogenic disturbances on antibiotic resistome along the Yarlung Tsangpo River on the Tibetan Plateau: Ecological dissemination mechanisms of antibiotic resistance genes to bacterial pathogens. Water Research, 2021, 202, 117447.	5.3	44
36	Effect of iron plaque on antibiotic uptake and metabolism in water spinach (Ipomoea aquatic Forsk.) grown in hydroponic culture. Journal of Hazardous Materials, 2021, 417, 125981.	6.5	16

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37	Ecological insights into the elevational biogeography of antibiotic resistance genes in a pristine river: Metagenomic analysis along the Yarlung Tsangpo River on the Tibetan Plateau. Environmental Pollution, 2021, 286, 117101.	3.7	19
38	Ecological insights into the disturbances in bacterioplankton communities due to emerging organic pollutants from different anthropogenic activities along an urban river. Science of the Total Environment, 2021, 796, 148973.	3.9	20
39	Sedimentary microeukaryotes reveal more dispersal limitation and form networks with less connectivity than planktonic microeukaryotes in a highly regulated river. Freshwater Biology, 2021, 66, 826-841.	1.2	13
40	Catalytic ozonation of dibutyl phthalate in the presence of Ag-doped NiFe₂O₄ and its mechanism. Environmental Technology (United Kingdom), 2021, 42, 4528-4538.	1.2	7
41	Probing the role of surface acid sites on the photocatalytic degradation of tetracycline hydrochloride over cerium doped CdS via experiments and theoretical calculations. Dalton Transactions, 2021, 50, 16620-16630.	1.6	9
42	Synthesis of novel ternary heterogeneous anatase-TiO2 (B) biphase nanowires/Bi4O5I2 composite photocatalysts for the highly efficient degradation of acetaminophen under visible light irradiation. Journal of Hazardous Materials, 2020, 382, 121083.	6.5	115
43	Fungal community demonstrates stronger dispersal limitation and less network connectivity than bacterial community in sediments along a large river. Environmental Microbiology, 2020, 22, 832-849.	1.8	115
44	Response of bacterial community in composition and function to the various DOM at river confluences in the urban area. Water Research, 2020, 169, 115293.	5.3	67
45	Identifying key environmental factors for enhancing the pollutant removal potential at a river confluence. Environmental Research, 2020, 180, 108880.	3.7	7
46	Differential responses of encoding-amoA nitrifiers and nir denitrifiers in activated sludge to anatase and rutile TiO2 nanoparticles: What is active functional guild in rate limiting step of nitrogen cycle?. Journal of Hazardous Materials, 2020, 384, 121388.	6.5	21
47	Improving water ecosystem sustainability of urban water system by management strategies optimization. Journal of Environmental Management, 2020, 254, 109766.	3.8	18
48	Effects of phosphorus availability and phosphorus utilization behavior of Microcystis aeruginosa on its adaptation capability to ultraviolet radiation. Environmental Pollution, 2020, 256, 113441.	3.7	18
49	Highly efficient nitrate reduction driven by an electrocoagulation system: An electrochemical and molecular mechanism. Bioelectrochemistry, 2020, 133, 107454.	2.4	5
50	Effects of Ag NPs on denitrification in suspended sediments via inhibiting microbial electron behaviors. Water Research, 2020, 171, 115436.	5.3	71
51	Development of a comprehensive understanding of aggregation-settling movement of CeO2 nanoparticles in natural waters. Environmental Pollution, 2020, 257, 113584.	3.7	11
52	All-solid-state Z-scheme WO3 nanorod/ZnIn2S4 composite photocatalysts for the effective degradation of nitenpyram under visible light irradiation. Journal of Hazardous Materials, 2020, 387, 121713.	6.5	147
53	Aryl sulfonyl chlorides and sodium aryl sulfinates: non-volatile, non-stench, and non-toxic aryl thiol surrogates for direct aryl-sulfenylation of Câ€“H bonds. Journal of Sulfur Chemistry, 2020, 41, 210-228.	1.0	20
54	Bend-induced sediment redistribution regulates deterministic processes and stimulates microbial nitrogen removal in coarse sediment regions of river. Water Research, 2020, 170, 115315.	5.3	38

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55	Sorption and desorption behaviors of triphenyl phosphate (TPhP) and its degradation intermediates on aquatic sediments. Journal of Hazardous Materials, 2020, 385, 121574.	6.5	12
56	Silver nanoparticles and Fe(III) co-regulate microbial community and N2O emission in river sediments. Science of the Total Environment, 2020, 706, 135712.	3.9	14
57	Effect of perfluorooctanesulfonate (PFOS) on the rhizosphere soil nitrogen cycling of two riparian plants. Science of the Total Environment, 2020, 741, 140494.	3.9	19
58	Do bacterioplankton respond equally to different river regulations? A quantitative study in the single-dammed Yarlung Tsangpo River and the cascade-dammed Lancang River. Environmental Research, 2020, 191, 110194.	3.7	10
59	Effective inactivation of Microcystis aeruginosa by a novel Z-scheme composite photocatalyst under visible light irradiation. Science of the Total Environment, 2020, 746, 141149.	3.9	37
60	First attempt for in situ capping with lanthanum modified bentonite (LMB) on the immobilization and transformation of organic phosphorus at the sediment-water interface. Science of the Total Environment, 2020, 741, 140342.	3.9	20
61	Rising atmospheric CO2 levels result in an earlier cyanobacterial bloom-maintenance phase with higher algal biomass. Water Research, 2020, 185, 116267.	5.3	15
62	Elucidating multilevel toxicity response differences between tris(1,3-dichloro-2-propyl) phosphate and its primary metabolite in Corbicula fluminea. Science of the Total Environment, 2020, 749, 142049.	3.9	3
63	Field observation and simulation experiments on nutrient transformation during phytoplankton-derived particulate matter deposition. Environmental Science and Pollution Research, 2020, 27, 25297-25311.	2.7	2
64	Lightâ€Controlled Ferromagnetism in Porphyrin Functionalized Ultrathin FeS Nanosheets. Advanced Optical Materials, 2020, 8, 2000046.	3.6	6
65	The photochemical release of dissolved organic matter from resuspended sediments: Insights from fluorescence spectroscopy. Chemosphere, 2020, 257, 127161.	4.2	9
66	Effects of aging and transformation of anatase and rutile TiO2 nanoparticles on biological phosphorus removal in sequencing batch reactors and related toxic mechanisms. Journal of Hazardous Materials, 2020, 398, 123030.	6.5	17
67	Responses of freshwater biofilm formation processes (from colonization to maturity) to anatase and rutile TiO2 nanoparticles: Effects of nanoparticles aging and transformation. Water Research, 2020, 182, 115953.	5.3	21
68	The surface engineering of ReS₂ with cobalt for efficient performance in hydrogen evolution under both acid and alkaline conditions. Chemical Communications, 2020, 56, 8472-8475.	2.2	18
69	Improved photoremoval performance of boron carbon nitrideâ€“pyromellitic dianhydride composite toward tetracycline and Cr(vi) by itself to change the solution pH. New Journal of Chemistry, 2020, 44, 11105-11124.	1.4	15
70	Distinct Assembly Mechanisms Underlie Similar Biogeographic Patterns of Rare and Abundant Bacterioplankton in Cascade Reservoirs of a Large River. Frontiers in Microbiology, 2020, 11, 158.	1.5	37
71	Effects of silver nanoparticles on coupled nitrificationâ€“denitrification in suspended sediments. Journal of Hazardous Materials, 2020, 389, 122130.	6.5	32
72	Doping of carbon into boron nitride to get the increased adsorption ability for tetracycline from water by changing the pH of solution. Chemical Engineering Journal, 2020, 387, 124136.	6.6	100

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73	Insights into spatial effects of ceria nanoparticles on oxygen mass transfer in wastewater biofilms: Interfacial microstructure, in-situ microbial activity and metabolism regulation mechanism. Water Research, 2020, 176, 115731.	5.3	16
74	Effects of sediment components and TiO2 nanoparticles on perfluorooctane sulfonate adsorption properties. Journal of Soils and Sediments, 2019, 19, 2034-2047.	1.5	8
75	Homogeneous selection dominates the microbial community assembly in the sediment of the Three Gorges Reservoir. Science of the Total Environment, 2019, 690, 50-60.	3.9	108
76	Microstructure, bacterial community and metabolic prediction of multi-species biofilms following exposure to di-(2-ethylhexyl) phthalate (DEHP). Chemosphere, 2019, 237, 124382.	4.2	18
77	Investigation on the effects of sediment resuspension on the binding of colloidal organic matter to copper using fluorescence techniques. Chemosphere, 2019, 236, 124312.	4.2	10
78	Zero valent iron supported biological denitrification for farmland drainage treatments with low organic carbon: Performance and potential mechanisms. Science of the Total Environment, 2019, 689, 1044-1053.	3.9	35
79	Epiphytic bacterial community shift drives the nutrient cycle during Potamogeton malaianus decomposition. Chemosphere, 2019, 236, 124253.	4.2	34
80	The responses of bacterial community and N2O emission to nitrogen input in lake sediment: Estrogen as a co-pollutant. Environmental Research, 2019, 179, 108769.	3.7	26
81	The Influence on Contaminant Bioavailability and Microbial Abundance of Lake Hongze by the South-to-North Water Diversion Project. International Journal of Environmental Research and Public Health, 2019, 16, 3068.	1.2	11
82	Cyanobacteria in eutrophic waters benefit from rising atmospheric CO2 concentrations. Science of the Total Environment, 2019, 691, 1144-1154.	3.9	26
83	Effects of decabromodiphenyl ether on activity, abundance, and community composition of phosphorus mineralizing bacteria in eutrophic lake sediments. Science of the Total Environment, 2019, 695, 133785.	3.9	24
84	Phytotoxicity and oxidative stress of perfluorooctanesulfonate to two riparian plants: Acorus calamus and Phragmites communis. Ecotoxicology and Environmental Safety, 2019, 180, 215-226.	2.9	43
85	Nitrate addition promotes the nitrogen cycling processes under the co-contaminated tetrabromobisphenol A and copper condition in river sediment. Environmental Pollution, 2019, 251, 659-667.	3.7	12
86	Differential toxicity of anatase and rutile TiO₂nanoparticles to the antioxidant enzyme system and metabolic activities of freshwater biofilms based on microelectrodes and fluorescencein situhybridization. Environmental Science: Nano, 2019, 6, 2626-2640.	2.2	12
87	Determination of vertical and horizontal assemblage drivers of bacterial community in a heavily polluted urban river. Water Research, 2019, 161, 98-107.	5.3	85
88	Novel Visible Light Driven Magnetically Separable Graphene/BiOBr Composite Photocatalysts with Enhanced Photocatalytic Activity. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 521-526.	0.4	0
89	Shifts in the Microbial Community of Activated Sludge with Different COD/N Ratios or Dissolved Oxygen Levels in Tibet, China. Sustainability, 2019, 11, 2284.	1.6	10
90	Developing boron nitride-pyromellitic dianhydride composite for removal of aromatic pollutants from wastewater via adsorption and photodegradation. Chemosphere, 2019, 229, 112-124.	4.2	19

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91	Quantitative measurement of aggregation kinetics process of nanoparticles using nanoparticle tracking analysis and dynamic light scattering. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	10
92	New Insights into Sediment Transport in Interconnected Riverâ€“Lake Systems Through Tracing Microorganisms. Environmental Science & Technology, 2019, 53, 4099-4108.	4.6	47
93	Toxicity of Three Crystalline TiO₂ Nanoparticles in Activated Sludge: Bacterial Cell Death Modes Differentially Weaken Sludge Dewaterability. Environmental Science & Technology, 2019, 53, 4542-4555.	4.6	70
94	Effects of interactions between humic acid and heavy metal ions on the aggregation of TiO2 nanoparticles in water environment. Environmental Pollution, 2019, 248, 834-844.	3.7	39
95	Life cycle assessment of advanced wastewater treatment processes: Involving 126 pharmaceuticals and personal care products in life cycle inventory. Journal of Environmental Management, 2019, 238, 442-450.	3.8	73
96	Synthesis of Porous Boron-Doped Carbon Nitride: Adsorption Capacity and Photo-Regeneration Properties. International Journal of Environmental Research and Public Health, 2019, 16, 581.	1.2	13
97	Porous oxygen-doped carbon nitride: supramolecular preassembly technology and photocatalytic degradation of organic pollutants under low-intensity light irradiation. Environmental Science and Pollution Research, 2019, 26, 15710-15723.	2.7	27
98	Effects of cerium oxide nanoparticles on bacterial growth and behaviors: induction of biofilm formation and stress response. Environmental Science and Pollution Research, 2019, 26, 9293-9304.	2.7	26
99	Vertical distribution and assemblages of microbial communities and their potential effects on sulfur metabolism in a black-odor urban river. Journal of Environmental Management, 2019, 235, 368-376.	3.8	77
100	Bacterial community composition and function shift with the aggravation of water quality in a heavily polluted river. Journal of Environmental Management, 2019, 237, 433-441.	3.8	79
101	Developing a Novel Layered Boron Nitrideâ€“Carbon Nitride Composite with High Efficiency and Selectivity To Remove Protonated Dyes from Water. ACS Sustainable Chemistry and Engineering, 2019, 7, 5727-5741.	3.2	45
102	Fabrication and photocatalytic performance evaluation of hydrodynamic erosionâ€“resistant nano-TiO2â€“silicone resin composite films. Environmental Science and Pollution Research, 2019, 26, 4997-5007.	2.7	4
103	Statistical determination of crucial taxa indicative of pollution gradients in sediments of Lake Taihu, China. Environmental Pollution, 2019, 246, 753-762.	3.7	48
104	Low concentrations of copper oxide nanoparticles alter microbial community structure and function of sediment biofilms. Science of the Total Environment, 2019, 653, 705-713.	3.9	36
105	Background nutrients and bacterial community evolution determine 13C-17Î²-estradiol mineralization in lake sediment microcosms. Science of the Total Environment, 2019, 651, 2304-2311.	3.9	33
106	Investigating spectroscopic and copper-binding characteristics of organic matter derived from sediments and suspended particles using EEM-PARAFAC combined with two-dimensional fluorescence/FTIR correlation analyses. Chemosphere, 2019, 219, 45-53.	4.2	53
107	Sorption removal of phthalate esters and bisphenols to biofilms from urban river: From macroscopic to microcosmic investigation. Water Research, 2019, 150, 261-270.	5.3	33
108	Distinct community structure and microbial functions of biofilms colonizing microplastics. Science of the Total Environment, 2019, 650, 2395-2402.	3.9	387

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109	Numerical simulation of the composite foundation of cement soil mixing piles using FLAC3D. Cluster Computing, 2019, 22, 7965-7974.	3.5	13
110	Vertical Distribution of Particulates within the Near-Surface Layer of Dry Bulk Port and Influence Mechanism: A Case Study in China. Sustainability, 2019, 11, 7135.	1.6	6
111	Effects of Ag and Ag2S nanoparticles on denitrification in sediments. Water Research, 2018, 137, 28-36.	5.3	84
112	Changes in Microcystis aeruginosa cell integrity and variation in microcystin-LR and proteins during Tanfloc flocculation and floc storage. Science of the Total Environment, 2018, 626, 264-273.	3.9	26
113	How physiological and physical processes contribute to the phenology of cyanobacterial blooms in large shallow lakes: A new Euler-Lagrangian coupled model. Water Research, 2018, 140, 34-43.	5.3	42
114	Enhanced visible light activated hydrogen evolution activity over cadmium sulfide nanorods by the synergetic effect of a thin carbon layer and noble metal-free nickel phosphide cocatalyst. Journal of Colloid and Interface Science, 2018, 525, 107-114.	5.0	35
115	Efficient degradation of atrazine by BiOBr/UiO-66 composite photocatalyst under visible light irradiation: Environmental factors, mechanisms and degradation pathways. Chemosphere, 2018, 203, 497-505.	4.2	118
116	Effects of water flow on submerged macrophyte-biofilm systems in constructed wetlands. Scientific Reports, 2018, 8, 2650.	1.6	25
117	Responses of wastewater biofilms to chronic CeO2 nanoparticles exposure: Structural, physicochemical and microbial properties and potential mechanism. Water Research, 2018, 133, 208-217.	5.3	64
118	Metal-free virucidal effects induced by g-C3N4 under visible light irradiation: Statistical analysis and parameter optimization. Chemosphere, 2018, 195, 551-558.	4.2	50
119	Dredged-Sediment-Promoted Synthesis of Boron-Nitride-Based Floating Photocatalyst with Photodegradation of Neutral Red under Ultraviolet-Light Irradiation. ACS Applied Materials & Interfaces, 2018, 10, 4640-4651.	4.0	23
120	Significantly enhanced visible light photocatalytic efficiency of phosphorus doped TiO2 with surface oxygen vacancies for ciprofloxacin degradation: Synergistic effect and intermediates analysis. Journal of Hazardous Materials, 2018, 351, 196-205.	6.5	204
121	Photocatalytic properties of P25-doped TiO 2 composite film synthesized via solâ€“gel method on cement substrate. Journal of Environmental Sciences, 2018, 66, 71-80.	3.2	23
122	TiO2 nanoparticles in sediments: Effect on the bioavailability of heavy metals in the freshwater bivalve Corbicula fluminea. Journal of Hazardous Materials, 2018, 342, 41-50.	6.5	43
123	Effect of a typical antibiotic (tetracycline) on the aggregation of TiO2 nanoparticles in an aquatic environment. Journal of Hazardous Materials, 2018, 341, 187-197.	6.5	67
124	Response of ammonia oxidizing archaea and bacteria to decabromodiphenyl ether and copper contamination in river sediments. Chemosphere, 2018, 191, 858-867.	4.2	31
125	Towards a better understanding on aggregation behavior of CeO2 nanoparticles in different natural waters under flow disturbance. Journal of Hazardous Materials, 2018, 343, 235-244.	6.5	23
126	The effects of extracellular polymeric substances on magnetic iron oxide nanoparticles stability and the removal of microcystin-LR in aqueous environments. Ecotoxicology and Environmental Safety, 2018, 148, 89-96.	2.9	14

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127	Construction of a composite photocatalyst with significantly enhanced photocatalytic performance through combination of homo-junction with hetero-junction. Catalysis Science and Technology, 2018, 8, 486-498.	2.1	36
128	Effect of TiO2 and CeO2 nanoparticles on the metabolic activity of surficial sediment microbial communities based on oxygen microelectrodes and high-throughput sequencing. Water Research, 2018, 129, 287-296.	5.3	32
129	Optimal allocation of physical water resources integrated with virtual water trade in water scarce regions: A case study for Beijing, China. Water Research, 2018, 129, 264-276.	5.3	116
130	Effects of silver sulfide nanoparticles on the microbial community structure and biological activity of freshwater biofilms. Environmental Science: Nano, 2018, 5, 2899-2908.	2.2	26
131	Characterization of microbes and denitrifiers attached to two species of floating plants in the wetlands of Lake Taihu. PLoS ONE, 2018, 13, e0207443.	1.1	21
132	Assessment of the Multi-Objective Reservoir Operation for Maintaining the Turbidity Maximum Zone in the Yangtze River Estuary. International Journal of Environmental Research and Public Health, 2018, 15, 2118.	1.2	8
133	Mercury distribution, speciation and potential ecological risk assessment in sediments from Lake Taihu, China. Toxicological and Environmental Chemistry, 2018, 100, 425-439.	0.6	3
134	Titanium Phosphate Nanoplates Modified With AgBr@Ag Nanoparticles: A Novel Heterostructured Photocatalyst With Significantly Enhanced Visible Light Responsive Activity. Frontiers in Chemistry, 2018, 6, 489.	1.8	18
135	Spatial and Temporal Distribution of Particulate Phosphorus and Their Correlation with Environmental Factors in a Shallow Eutrophic Chinese Lake (Lake Taihu). International Journal of Environmental Research and Public Health, 2018, 15, 2355.	1.2	18
136	Mechanistic understanding of cerium oxide nanoparticle-mediated biofilm formation in Pseudomonas aeruginosa. Environmental Science and Pollution Research, 2018, 25, 34765-34776.	2.7	11
137	Relationship between Photosynthetic Capacity and Microcystin Production in Toxic Microcystis Aeruginosa under Different Iron Regimes. International Journal of Environmental Research and Public Health, 2018, 15, 1954.	1.2	6
138	Combined toxicity of organophosphate flame retardants and cadmium to Corbicula fluminea in aquatic sediments. Environmental Pollution, 2018, 243, 645-653.	3.7	38
139	How bacterioplankton community can go with cascade damming in the highly regulated Lancangâ€“Mekong River Basin. Molecular Ecology, 2018, 27, 4444-4458.	2.0	40
140	Variation of bacterioplankton community along an urban river impacted by touristic city: With a focus on pathogen. Ecotoxicology and Environmental Safety, 2018, 165, 573-581.	2.9	21
141	Aggregation, sedimentation, and dissolution of CuO and ZnO nanoparticles in five waters. Environmental Science and Pollution Research, 2018, 25, 31240-31249.	2.7	41
142	Highly efficient adsorption of uranium(<scp>vi</scp>) from aqueous solution by a novel adsorbent: titanium phosphate nanotubes. Environmental Science: Nano, 2018, 5, 2304-2314.	2.2	29
143	Nanoparticle tracking analysis versus dynamic light scattering: Case study on the effect of Ca2+ and alginate on the aggregation of cerium oxide nanoparticles. Journal of Hazardous Materials, 2018, 360, 319-328.	6.5	47
144	Construction of silver iodide/silver/bismuth tantalate Z-scheme photocatalyst for effective visible light degradation of organic pollutants. Journal of Colloid and Interface Science, 2018, 532, 190-200.	5.0	49

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145	Bacterial Communities in Riparian Sediments: A Large-Scale Longitudinal Distribution Pattern and Response to Dam Construction. Frontiers in Microbiology, 2018, 9, 999.	1.5	41
146	Influence of CeO2 nanoparticles on viscoelastic properties of sludge: Role of extracellular polymeric substances. Environmental Research, 2018, 167, 34-41.	3.7	7
147	Optimal reservoir operation using multi-objective evolutionary algorithms for potential estuarine eutrophication control. Journal of Environmental Management, 2018, 223, 758-770.	3.8	35
148	Unraveling adsorption behavior and mechanism of perfluorooctane sulfonate (PFOS) on aging aquatic sediments contaminated with engineered nano-TiO2. Environmental Science and Pollution Research, 2018, 25, 17878-17889.	2.7	6
149	A weak-light-responsive TiO2/g-C3N4 composite film: photocatalytic activity under low-intensity light irradiation. Environmental Science and Pollution Research, 2018, 25, 20206-20216.	2.7	10
150	Investigation of the rheological behavior of activated sludge in response to CeO2 nanoparticles and potential mechanism. Environmental Science and Pollution Research, 2018, 25, 29725-29733.	2.7	3
151	Influence of extracellular polymeric substances on cell-NPs heteroaggregation process and toxicity of cerium dioxide NPs to Microcystis aeruginosa. Environmental Pollution, 2018, 242, 1206-1216.	3.7	23
152	Strategies and relative mechanisms to attenuate the bioaccumulation and biotoxicity of ceria nanoparticles in wastewater biofilms. Bioresource Technology, 2018, 265, 102-109.	4.8	15
153	In situ surface engineering of ultrafine Ni₂P nanoparticles on cadmium sulfide for robust hydrogen evolution. Catalysis Science and Technology, 2018, 8, 5406-5415.	2.1	69
154	Synergistic effect of surface phase junction and surface defects on enhancing the photocatalytic performance of BiPO ₄. Micro and Nano Letters, 2018, 13, 720-724.	0.6	3
155	Influence of silver nanoparticles on benthic oxygen consumption of microbial communities in freshwater sediments determined by microelectrodes. Environmental Pollution, 2017, 224, 771-778.	3.7	23
156	The characterization of dissolved organic matter extracted from different sources and their influence on cadmium uptake by Microcystis aeruginosa. Environmental Toxicology and Chemistry, 2017, 36, 1856-1863.	2.2	25
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