Jin Qian

List of Publications by Year in descending order

121 papers	4,942 citations	76326 40 h-index	106344 65 g-index
122 all docs	122 docs citations	122 times ranked	6175 citing authors

#	Article	IF	Citations
1	Kinetics and thermodynamics of adsorption of methylene blue by a magnetic graphene-carbon nanotube composite. Applied Surface Science, 2014, 290, 116-124.	6.1	292
2	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.	12.4	204
3	Visible light activated photocatalytic degradation of tetracycline by a magnetically separable composite photocatalyst: Graphene oxide/magnetite/cerium-doped titania. Journal of Colloid and Interface Science, 2016, 467, 129-139.	9.4	186
4	Photocatalytic degradation of tetrabromobisphenol A by a magnetically separable grapheneâ€“TiO2 composite photocatalyst: Mechanism and intermediates analysis. Chemical Engineering Journal, 2015, 264, 113-124.	12.7	140
5	Effect of oxygen vacancy on enhanced photocatalytic activity of reduced ZnO nanorod arrays. Applied Surface Science, 2015, 325, 112-116.	6.1	130
6	A one-pot method for the preparation of grapheneâ€“Bi2MoO6 hybrid photocatalysts that are responsive to visible-light and have excellent photocatalytic activity in the degradation of organic pollutants. Carbon, 2012, 50, 5256-5264.	10.3	125
7	Combining Heterojunction Engineering with Surface Cocatalyst Modification To Synergistically Enhance the Photocatalytic Hydrogen Evolution Performance of Cadmium Sulfide Nanorods. ACS Sustainable Chemistry and Engineering, 2017, 5, 7670-7677.	6.7	123
8	Noble-metal-free nickel phosphide modified CdS/C₃N₄ nanorods for dramatically enhanced photocatalytic hydrogen evolution under visible light irradiation. Dalton Transactions, 2017, 46, 13793-13801.	3.3	122
9	Phosphate group grafted twinned BiPO4 with significantly enhanced photocatalytic activity: Synergistic effect of improved charge separation efficiency and redox ability. Applied Catalysis B: Environmental, 2018, 234, 90-99.	20.2	115
10	Effects of Pb stress on nutrient uptake and secondary metabolism in submerged macrophyte Vallisneria natans. Ecotoxicology and Environmental Safety, 2011, 74, 1297-1303.	6.0	96
11	Inhibitory effects of ZnO nanoparticles on aerobic wastewater biofilms from oxygen concentration profiles determined by microelectrodes. Journal of Hazardous Materials, 2014, 276, 164-170.	12.4	95
12	Preparation of grapheneâ€“carbon nanotubeâ€“TiO2 composites with enhanced photocatalytic activity for the removal of dye and Cr (VI). Applied Catalysis A: General, 2014, 473, 83-89.	4.3	95
13	Salicylic acid involved in the regulation of nutrient elements uptake and oxidative stress in Vallisneria natans (Lour.) Hara under Pb stress. Chemosphere, 2011, 84, 136-142.	8.2	94
14	Distribution of metals in water and suspended particulate matter during the resuspension processes in Taihu Lake sediment, China. Quaternary International, 2013, 286, 94-102.	1.5	94
15	Oxygen vacancies and phosphorus codoped black titania coated carbon nanotube composite photocatalyst with efficient photocatalytic performance for the degradation of acetaminophen under visible light irradiation. Chemical Engineering Journal, 2018, 352, 947-956.	12.7	92
16	Preparation, characterization, photocatalytic properties of titania hollow sphere doped with cerium. Journal of Hazardous Materials, 2010, 178, 517-521.	12.4	85
17	From source to sink: Review and prospects of microplastics in wetland ecosystems. Science of the Total Environment, 2021, 758, 143633.	8.0	77
18	Preparation of graphene oxideâ€“Ag3PO4 composite photocatalyst with high visible light photocatalytic activity. Applied Surface Science, 2013, 271, 265-270.	6.1	76

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19	Distribution of extractable fractions of heavy metals in sludge during the wastewater treatment process. Journal of Hazardous Materials, 2006, 137, 1277-1283.	12.4	72
20	Acceleration of levofloxacin degradation by combination of multiple free radicals via MoS2 anchored in manganese ferrite doped perovskite activated PMS under visible light. Chemical Engineering Journal, 2022, 431, 133933.	12.7	71
21	Toxicity of Three Crystalline TiO₂ Nanoparticles in Activated Sludge: Bacterial Cell Death Modes Differentially Weaken Sludge Dewaterability. Environmental Science & Technology, 2019, 53, 4542-4555.	10.0	70
22	In situ surface engineering of ultrafine Ni₂P nanoparticles on cadmium sulfide for robust hydrogen evolution. Catalysis Science and Technology, 2018, 8, 5406-5415.	4.1	69
23	Preparation, characterization and photocatalytic activity of the neodymium-doped TiO2 hollow spheres. Applied Surface Science, 2010, 257, 227-231.	6.1	68
24	Excess Zn alters the nutrient uptake and induces the antioxidative responses in submerged plant Hydrilla verticillata (L.f.) Royle. Chemosphere, 2009, 76, 938-945.	8.2	65
25	Algal growth and utilization of phosphorus studied by combined mono-culture and co-culture experiments. Environmental Pollution, 2017, 220, 274-285.	7.5	64
26	Enhanced photoelectrocatalytic activity for dye degradation by grapheneâ€“titania composite film electrodes. Journal of Hazardous Materials, 2012, 223-224, 79-83.	12.4	63
27	Graphene and TiO2 co-modified flower-like Bi2O2CO3: A novel multi-heterojunction photocatalyst with enhanced photocatalytic activity. Applied Surface Science, 2015, 355, 411-418.	6.1	61
28	Preparation of CdS nanoparticle loaded flower-like Bi₂O₂CO₃ heterojunction photocatalysts with enhanced visible light photocatalytic activity. Dalton Transactions, 2015, 44, 11321-11330.	3.3	60
29	A simple method for large-scale preparation of ZnS nanoribbon film and its photocatalytic activity for dye degradation. Applied Surface Science, 2010, 256, 4125-4128.	6.1	56
30	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.	8.2	53
31	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.	9.4	49
32	Preparation of cerium and nitrogen co-doped titania hollow spheres with enhanced visible light photocatalytic performance. Powder Technology, 2011, 210, 203-207.	4.2	47
33	Toxic effects of three crystalline phases of TiO2 nanoparticles on extracellular polymeric substances in freshwater biofilms. Bioresource Technology, 2017, 241, 276-283.	9.6	47
34	Perfluorooctane sulfonate adsorption on powder activated carbon: Effect of phosphate (P) competition, pH, and temperature. Chemosphere, 2017, 182, 215-222.	8.2	46
35	Preparation, characterization and photocatalytic activity of a novel composite photocatalyst: Ceria-coated activated carbon. Journal of Hazardous Materials, 2010, 184, 1-5.	12.4	43
36	Investigation on graphene and Pt co-modified CdS nanowires with enhanced photocatalytic hydrogen evolution activity under visible light irradiation. Dalton Transactions, 2015, 44, 16372-16382.	3.3	43

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37	In-situ growth of Ag3VO4 nanoparticles onto BiOCl nanosheet to form a heterojunction photocatalyst with enhanced performance under visible light irradiation. Journal of Alloys and Compounds, 2016, 688, 1-7.	5.5	43
38	Effect of UV irradiation on the aggregation of TiO2 in an aquatic environment: Influence of humic acid and pH. Environmental Pollution, 2016, 212, 178-187.	7.5	43
39	Phytotoxicity and oxidative stress of perfluorooctanesulfonate to two riparian plants: Acorus calamus and Phragmites communis. Ecotoxicology and Environmental Safety, 2019, 180, 215-226.	6.0	43
40	Photoelectrocatalytic determination of chemical oxygen demand under visible light using Cu2O-loaded TiO2 nanotube arrays electrode. Sensors and Actuators B: Chemical, 2013, 181, 1-8.	7.8	42
41	Effects of vegetations on the removal of contaminants in aquatic environments: A review. Journal of Hydrodynamics, 2014, 26, 497-511.	3.2	42
42	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.	11.3	42
43	Enhanced photocatalytic properties of the 3D flower-like Mg-Al layered double hydroxides decorated with Ag 2 CO 3 under visible light illumination. Materials Research Bulletin, 2016, 80, 23-29.	5.2	41
44	Adsorption of perfluorooctane sulfonate on soils: Effects of soil characteristics and phosphate competition. Chemosphere, 2017, 168, 1383-1388.	8.2	41
45	The effect of flow velocity on the distribution and composition of extracellular polymeric substances in biofilms and the detachment mechanism of biofilms. Water Science and Technology, 2014, 69, 825-832.	2.5	40
46	A facile method for the preparation of titania-coated magnetic porous silica and its photocatalytic activity under UV or visible light. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 360, 184-189.	4.7	39
47	Experimental Study on Sediment Resuspension in Taihu Lake Under Different Hydrodynamic Disturbances. Journal of Hydrodynamics, 2011, 23, 826-833.	3.2	39
48	Effects of iron on growth, antioxidant enzyme activity, bound extracellular polymeric substances and microcystin production of Microcystis aeruginosa FACHB-905. Ecotoxicology and Environmental Safety, 2016, 132, 231-239.	6.0	37
49	Effects of riparian land use changes on soil aggregates and organic carbon. Ecological Engineering, 2018, 112, 82-88.	3.6	37
50	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.	4.1	36
51	The effect of anthropogenic impoundment on dissolved organic matter characteristics and copper binding affinity: Insights from fluorescence spectroscopy. Chemosphere, 2017, 188, 424-433.	8.2	34
52	Effects of polystyrene nanoplastics on extracellular polymeric substance composition of activated sludge: The role of surface functional groups. Environmental Pollution, 2021, 279, 116904.	7.5	33
53	Co-adsorption of perfluorooctane sulfonate and phosphate on boehmite: Influence of temperature, phosphate initial concentration and pH. Ecotoxicology and Environmental Safety, 2017, 137, 71-77.	6.0	31
54	Modeling of sediment and heavy metal transport in Taihu Lake, China. Journal of Hydrodynamics, 2013, 25, 379-387.	3.2	30

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55	In situ high-resolution evaluation of labile arsenic and mercury in sediment of a large shallow lake. Science of the Total Environment, 2016, 541, 83-91.	8.0	30
56	Controlled synthesis in large-scale of CdS mesospheres and photocatalytic activity. Materials Letters, 2010, 64, 439-441.	2.6	29
57	An improved habitat model to evaluate the impact of water conservancy projects on Chinese sturgeon (Acipenser sinensis) spawning sites in the Yangtze River, China. Ecological Engineering, 2017, 104, 165-176.	3.6	29
58	Assessing the ecohydrological separation hypothesis and seasonal variations in water use by Ginkgo biloba L. in a subtropical riparian area. Journal of Hydrology, 2017, 553, 486-500.	5.4	29
59	Preparation of Ag nanoparticles loaded TiO2 nanoplate arrays on activated carbon fibers with enhanced photocatalytic activity. Catalysis Communications, 2014, 53, 21-24.	3.3	28
60	A BiOBr/Coâ€“Ni layered double hydroxide nanocomposite with excellent adsorption and photocatalytic properties. RSC Advances, 2015, 5, 54613-54621.	3.6	28
61	Understanding the transport feature of bloom-forming Microcystis in a large shallow lake: A new combined hydrodynamic and spatially explicit agent-based modelling approach. Ecological Modelling, 2017, 343, 25-38.	2.5	27
62	Heavy metal pollution status and ecological risks of sediments under the influence of water transfers in Taihu Lake, China. Environmental Science and Pollution Research, 2017, 24, 2653-2666.	5.3	27
63	Bi 2 MoO 6 nanosheets deposited TiO 2 nanobelts with spatially branched hierarchical heterostructure for enhanced photocatalytic activity under visible light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 66-74.	4.7	26
64	Synthesis, characterization and photocatalytic activity of BiOBrâ€“AC composite photocatalyst. Composites Part B: Engineering, 2014, 59, 96-100.	12.0	25
65	Preparation of graphene oxide-loaded Ag3PO4@AgCl and its photocatalytic degradation of methylene blue and O2 evolution activity under visible light irradiation. International Journal of Hydrogen Energy, 2015, 40, 1016-1025.	7.1	25
66	Effects of carbon nanotubes on physicochemical properties and sulfamethoxazole adsorption of sediments with or without aging processes. Chemical Engineering Journal, 2017, 310, 317-327.	12.7	24
67	Impact of macrozoobenthic bioturbation and wind fluctuation interactions on net methylmercury in freshwater lakes. Water Research, 2017, 124, 320-330.	11.3	23
68	Hydrothermal synthesis of CeO2/NaNbO3 composites with enhanced photocatalytic performance. Chinese Journal of Catalysis, 2018, 39, 682-692.	14.0	22
69	Preparation of a magnetic graphene oxideâ€“Ag3PO4 composite photocatalyst with enhanced photocatalytic activity under visible light irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1080-1086.	5.3	21
70	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.	12.4	21
71	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.	11.3	21
72	Investigation on the application of titania nanorod arrays to the determination of chemical oxygen demand. Analytica Chimica Acta, 2013, 767, 141-147.	5.4	20

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73	Influence of artificial ecological floating beds on river hydraulic characteristics. Journal of Hydrodynamics, 2014, 26, 474-481.	3.2	20
74	Assessment of multi-objective reservoir operation in the middle and lower Yangtze River based on a flow regime influenced by the Three Gorges Project. Ecological Informatics, 2017, 38, 115-125.	5.2	20
75	Investigation on Ce-doped TiO2-coated BDD composite electrode with high photoelectrocatalytic activity under visible light irradiation. Electrochemistry Communications, 2011, 13, 1423-1423.	4.7	19
76	Characteristics, sources, and photobleaching of chromophoric dissolved organic matter (CDOM) in large and shallow Hongze Lake, China. Journal of Great Lakes Research, 2017, 43, 1165-1172.	1.9	19
77	Effect of perfluorooctanesulfonate (PFOS) on the rhizosphere soil nitrogen cycling of two riparian plants. Science of the Total Environment, 2020, 741, 140494.	8.0	19
78	Exposure to nanoplastic induces cell damage and nitrogen inhibition of activated sludge: Evidence from bacterial individuals and groups. Environmental Pollution, 2022, 306, 119471.	7.5	19
79	Preparation and enhanced photocatalytic performance of Sn ion modified titania hollow spheres. Materials Letters, 2011, 65, 3278-3280.	2.6	18
80	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.	8.0	18
81	Encapsulate SrCoO3 perovskite crystal within molybdenum disulfide layer as core-shell structure to enhance electron transfer for peroxymonosulfate activation. Separation and Purification Technology, 2022, 283, 120199.	7.9	18
82	The performance of chitosan/montmorillonite nanocomposite during the flocculation and floc storage processes of Microcystis aeruginosa cells. Environmental Science and Pollution Research, 2015, 22, 11148-11161.	5.3	17
83	Combined Monthly Inflow Forecasting and Multiobjective Ecological Reservoir Operations Model: Case Study of the Three Gorges Reservoir. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	17
84	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.	12.4	17
85	Preparation of graphene-modified TiO2 nanorod arrays with enhanced photocatalytic activity by a solvothermal method. Materials Letters, 2013, 101, 41-43.	2.6	15
86	Process Optimization for Microcystin-LR Adsorption onto Nano-sized Montmorillonite K10: Application of Response Surface Methodology. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	15
87	Crystalline phase-dependent eco-toxicity of titania nanoparticles toÂfreshwater biofilms. Environmental Pollution, 2017, 231, 1433-1441.	7.5	15
88	Photocatalytic performance of Gd ion modified titania porous hollow spheres under visible light. Materials Letters, 2010, 64, 1003-1006.	2.6	14
89	Effects of long-term perfluorooctane sulfonate (PFOS) exposure on activated sludge performance, composition, and its microbial community. Environmental Pollution, 2022, 295, 118684.	7.5	14
90	Light alters microbiota and electron transport: Evidence for enhanced mesophilic digestion of municipal sludge. Water Research, 2022, 217, 118447.	11.3	14

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91	Seasonal, Spatial Distribution and Ecological Risk Assessment of Heavy Metals in Surface Sediments from a Watershed Area in Gonghu Bay in Taihu Lake, China. Terrestrial, Atmospheric and Oceanic Sciences, 2014, 25, 605.	0.6	12
92	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.	4.3	12
93	Synthesis of a Carbon-Loaded Bi₂O₂CO₃/TiO₂ Photocatalyst with Improved Photocatalytic Degradation of Methyl Orange Dye. Journal of Nanoscience and Nanotechnology, 2020, 20, 7653-7658.	0.9	12
94	Phosphorus species in bottom sediments of the Three Gorges Reservoir during low and high water level periods. Environmental Science and Pollution Research, 2020, 27, 17923-17934.	5.3	11
95	Solvent-controlled preparation and photocatalytic properties of nanostructured TiO2 thin films with different morphologies. Materials Research Bulletin, 2014, 49, 223-228.	5.2	10
96	Modulating cobalt-iron electron transfer via encapsulated structure for enhanced catalytic activity in photo-peroxymonosulfate coupling system. Journal of Hazardous Materials, 2022, 439, 129609.	12.4	10
97	Flow characteristics of the wind-driven current with submerged and emergent flexible vegetations in shallow lakes. Journal of Hydrodynamics, 2016, 28, 746-756.	3.2	9
98	The role of fine root morphology in nitrogen uptake by riparian plants. Plant and Soil, 2022, 472, 527-542.	3.7	9
99	One-pot synthesis of AgBr/Ag2CO3 heterojunctions with enhanced visible-light photocatalytic activity. Materials Letters, 2016, 163, 258-261.	2.6	8
100	Effects of carbon nanotubes on phosphorus adsorption behaviors on aquatic sediments. Ecotoxicology and Environmental Safety, 2017, 142, 230-236.	6.0	8
101	Effects of sediment components and TiO2 nanoparticles on perfluorooctane sulfonate adsorption properties. Journal of Soils and Sediments, 2019, 19, 2034-2047.	3.0	8
102	Mechanisms of photochemical release of dissolved organic matter and iron from resuspended sediments. Journal of Environmental Sciences, 2021, 104, 288-295.	6.1	8
103	Effects of titanium dioxide (TiO 2) nanoparticles on the photodissolution of particulate organic matter: Insights from fluorescence spectroscopy and environmental implications. Environmental Pollution, 2017, 229, 19-28.	7.5	8
104	A simple method for preparation of superparamagnetic porous silica. Journal of Alloys and Compounds, 2010, 493, 410-414.	5.5	7
105	Investigation on preparation and photocatalytic activity of TiO2 nanosheet film on Ti substrate. Materials Letters, 2013, 102-103, 36-38.	2.6	7
106	Response surface modeling and optimization of microcystin-LR removal from aqueous phase by polyacrylamide/sodium alginateâ€“montmorillonite superabsorbent nanocomposite. Desalination and Water Treatment, 2015, 56, 1121-1139.	1.0	7
107	Water sources of riparian plants during a rainy season in Taihu Lake Basin, China: a stable isotope study. Chemical Speciation and Bioavailability, 2017, 29, 153-160.	2.0	6
108	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.	2.6	6

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109	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.	5.3	6
110	Exposure-Dose-Response Relationships of the Freshwater Bivalve Corbicula fluminea to Inorganic Mercury in Sediments. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5714-5723.	0.4	6
111	Evaluation of fluoride adsorption in solution by synthetic Al 2 O 3 /CeO 2 : a fixedâ€bed column study. Water Environment Research, 2021, 93, 2559-2575.	2.7	5
112	Nutrient Speciation and Distribution between Surface Water and Sediment in the Middle Reach of the Huai River, China. Journal of Environmental Engineering, ASCE, 2013, 139, 226-234.	1.4	4
113	Fractions and spatial distributions of agricultural riparian soil phosphorus in a small river basin of Taihu area, China. Chemical Speciation and Bioavailability, 2017, 29, 33-41.	2.0	4
114	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.	5.3	3
115	Acute bio-augmentation effect of perfluorooctane sulfonic acid (PFOS) on activated sludge in biological denitrification processes and related stress mechanisms. Environmental Science: Water Research and Technology, 2021, 7, 405-416.	2.4	3
116	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.	1.3	3
117	Effects of Ecological Spur Dikes on Spring Phytoplankton in Wangyu River. Advanced Materials Research, 0, 664, 81-86.	0.3	2
118	Speciation of potentially mobile Si in Yangtze Estuary surface sediments: estimates using a modified sequential extraction technique. Environmental Science and Pollution Research, 2016, 23, 18928-18941.	5.3	2
119	Identifying the provenance of bottom sediments in the Three Gorges Reservoir using stable Pb isotopes. Catena, 2021, 207, 105656.	5.0	2
120	Notice of Retraction: Effects of Cd on the Chlorophyll, Dry Weight and Nutrient Element Uptake of Chinese Cabbage. , 2011, , .		0
121	Riparian soil physicochemical properties and correlation with soil organic carbon of an inflowing river of Taihu Lake. IOP Conference Series: Earth and Environmental Science, 2017, 59, 012053.	0.3	0