

Jian Zhao

List of Publications by Year in descending order

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104
papers

7,963
citations

66343

42
h-index

49909

87
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104
all docs

104
docs citations

104
times ranked

8682
citing authors

#	ARTICLE	IF	CITATIONS
1	Xylem- and Phloem-Based Transport of CuO Nanoparticles in Maize (<i>Zea mays</i> L.). <i>Environmental Science & Technology</i> , 2012, 46, 4434-4441.	10.0	601
2	Graphene in the Aquatic Environment: Adsorption, Dispersion, Toxicity and Transformation. <i>Environmental Science & Technology</i> , 2014, 48, 9995-10009.	10.0	573
3	Environmental source, fate, and toxicity of microplastics. <i>Journal of Hazardous Materials</i> , 2021, 407, 124357.	12.4	414
4	Sorption of antibiotic sulfamethoxazole varies with biochars produced at different temperatures. <i>Environmental Pollution</i> , 2013, 181, 60-67.	7.5	334
5	Toxicity and Internalization of CuO Nanoparticles to Prokaryotic Alga <i>Microcystis aeruginosa</i> as Affected by Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2011, 45, 6032-6040.	10.0	323
6	Characteristics and nutrient values of biochars produced from giant reed at different temperatures. <i>Bioresource Technology</i> , 2013, 130, 463-471.	9.6	301
7	CuO Nanoparticle Interaction with Human Epithelial Cells: Cellular Uptake, Location, Export, and Genotoxicity. <i>Chemical Research in Toxicology</i> , 2012, 25, 1512-1521.	3.3	269
8	Effects of Solution Chemistry on Adsorption of Selected Pharmaceuticals and Personal Care Products (PPCPs) by Graphenes and Carbon Nanotubes. <i>Environmental Science & Technology</i> , 2014, 48, 13197-13206.	10.0	246
9	Identification and Avoidance of Potential Artifacts and Misinterpretations in Nanomaterial Ecotoxicity Measurements. <i>Environmental Science & Technology</i> , 2014, 48, 4226-4246.	10.0	209
10	Environmental processes and toxicity of metallic nanoparticles in aquatic systems as affected by natural organic matter. <i>Environmental Science: Nano</i> , 2016, 3, 240-255.	4.3	208
11	Mechanistic understanding toward the toxicity of graphene-family materials to freshwater algae. <i>Water Research</i> , 2017, 111, 18-27.	11.3	203
12	Photodegradation Elevated the Toxicity of Polystyrene Microplastics to Grouper (<i>Epinephelus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 2020, 54, 6202-6212.	10.0	187
13	Heteroaggregation of Graphene Oxide with Minerals in Aqueous Phase. <i>Environmental Science & Technology</i> , 2015, 49, 2849-2857.	10.0	182
14	Formation and Physicochemical Characteristics of Nano Biochar: Insight into Chemical and Colloidal Stability. <i>Environmental Science & Technology</i> , 2018, 52, 10369-10379.	10.0	178
15	Interaction of Microplastics with Antibiotics in Aquatic Environment: Distribution, Adsorption, and Toxicity. <i>Environmental Science & Technology</i> , 2021, 55, 15579-15595.	10.0	169
16	CuO Nanoparticle Interaction with <i>Arabidopsis thaliana</i> : Toxicity, Parent-Progeny Transfer, and Gene Expression. <i>Environmental Science & Technology</i> , 2016, 50, 6008-6016.	10.0	160
17	Mitigation of CuO nanoparticle-induced bacterial membrane damage by dissolved organic matter. <i>Water Research</i> , 2013, 47, 4169-4178.	11.3	152
18	Distribution of CuO nanoparticles in juvenile carp (<i>Cyprinus carpio</i>) and their potential toxicity. <i>Journal of Hazardous Materials</i> , 2011, 197, 304-310.	12.4	151

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19	Enhanced Adsorption of <i>p</i> -Arsenic Acid from Water by Amine-Modified UiO-67 as Examined Using Extended X-ray Absorption Fine Structure, X-ray Photoelectron Spectroscopy, and Density Functional Theory Calculations. <i>Environmental Science & Technology</i> , 2018, 52, 3466-3475.	10.0	148
20	Adsorption and Desorption of Phenanthrene on Carbon Nanotubes in Simulated Gastrointestinal Fluids. <i>Environmental Science & Technology</i> , 2011, 45, 6018-6024.	10.0	125
21	Interactions of CuO nanoparticles with the algae <i>Chlorella pyrenoidosa</i> : adhesion, uptake, and toxicity. <i>Nanotoxicology</i> , 2016, 10, 1297-1305.	3.0	120
22	Microplastics Reduce Lipid Digestion in Simulated Human Gastrointestinal System. <i>Environmental Science & Technology</i> , 2020, 54, 12285-12294.	10.0	115
23	Adsorption of sulfonamides on reduced graphene oxides as affected by pH and dissolved organic matter. <i>Environmental Pollution</i> , 2016, 210, 85-93.	7.5	109
24	Progress on polymeric hollow fiber membrane preparation technique from the perspective of green and sustainable development. <i>Chemical Engineering Journal</i> , 2021, 403, 126295.	12.7	108
25	Remediation of petroleum contaminated soils through composting and rhizosphere degradation. <i>Journal of Hazardous Materials</i> , 2011, 190, 677-685.	12.4	105
26	Preparation of high-flux PSF/GO loose nanofiltration hollow fiber membranes with dense-loose structure for treating textile wastewater. <i>Chemical Engineering Journal</i> , 2019, 363, 33-42.	12.7	102
27	Adsorption of Phenanthrene on Multilayer Graphene as Affected by Surfactant and Exfoliation. <i>Environmental Science & Technology</i> , 2014, 48, 331-339.	10.0	101
28	Oxidative stress-induced toxicity of CuO nanoparticles and related toxicogenomic responses in <i>Arabidopsis thaliana</i> . <i>Environmental Pollution</i> , 2016, 212, 605-614.	7.5	95
29	Engineered nanomaterials in the environment: Are they safe?. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1443-1478.	12.8	88
30	Uptake, Distribution, and Transformation of CuO NPs in a Floating Plant <i>Eichhornia crassipes</i> and Related Stomatal Responses. <i>Environmental Science & Technology</i> , 2017, 51, 7686-7695.	10.0	82
31	Review of optical fiber Mach-Zehnder interferometers with micro-cavity fabricated by femtosecond laser and sensing applications. <i>Optics and Lasers in Engineering</i> , 2019, 117, 7-20.	3.8	75
32	Effect of co-existing kaolinite and goethite on the aggregation of graphene oxide in the aquatic environment. <i>Water Research</i> , 2016, 102, 313-320.	11.3	72
33	Biodegradation of Crude Oil in Contaminated Soils by Free and Immobilized Microorganisms. <i>Pedosphere</i> , 2012, 22, 717-725.	4.0	70
34	Adsorption of Bovine Serum Albumin and Lysozyme on Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22249-22257.	3.1	59
35	Trophic transfer and accumulation of TiO ₂ nanoparticles from clamworm (<i>Perinereis aibuhitensis</i>) to juvenile turbot (<i>Scophthalmus maximus</i>) along a marine benthic food chain. <i>Water Research</i> , 2016, 95, 250-259.	11.3	59
36	Pulmonary Surfactant Suppressed Phenanthrene Adsorption on Carbon Nanotubes through Solubilization and Competition As Examined by Passive Dosing Technique. <i>Environmental Science & Technology</i> , 2012, 46, 5369-5377.	10.0	56

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37	One-step facile fabrication of PVDF/graphene composite nanofibrous membrane with enhanced oil affinity for highly efficient gravity-driven emulsified oil/water separation and selective oil absorption. <i>Separation and Purification Technology</i> , 2021, 254, 117576.	7.9	50
38	Rhizodegradation of petroleum hydrocarbons by <i>Sesbania cannabina</i> in bioaugmented soil with free and immobilized consortium. <i>Journal of Hazardous Materials</i> , 2012, 237-238, 262-269.	12.4	49
39	Structure design and performance study on braid-reinforced cellulose acetate hollow fiber membranes. <i>Journal of Membrane Science</i> , 2015, 486, 248-256.	8.2	49
40	Toxicity of GO to Freshwater Algae in the Presence of Al ₂ O ₃ Particles with Different Morphologies: Importance of Heteroaggregation. <i>Environmental Science & Technology</i> , 2018, 52, 13448-13456.	10.0	47
41	Review of no-core optical fiber sensor and applications. <i>Sensors and Actuators A: Physical</i> , 2020, 313, 112160.	4.1	47
42	Evaluation of polypropylene and poly (butylmethacrylate-co-hydroxyethylmethacrylate) nonwoven material as oil absorbent. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4137-4145.	5.3	46
43	Copper Oxide Nanoparticle-Embedded Hydrogels Enhance Nutrient Supply and Growth of Lettuce (<i>Lactuca sativa</i>) Infected with <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> . <i>Environmental Science & Technology</i> , 2021, 55, 13432-13442.	10.0	46
44	Phenanthrene binding by humic acid-protein complexes as studied by passive dosing technique. <i>Environmental Pollution</i> , 2014, 184, 145-153.	7.5	45
45	Femtosecond laser-inscribed fiber-optic sensor for seawater salinity and temperature measurements. <i>Sensors and Actuators B: Chemical</i> , 2022, 353, 131134.	7.8	44
46	Accumulation of metal-based nanoparticles in marine bivalve mollusks from offshore aquaculture as detected by single particle ICP-MS. <i>Environmental Pollution</i> , 2020, 260, 114043.	7.5	40
47	Interaction of CuO nanoparticles with plant cells: internalization, oxidative stress, electron transport chain disruption, and toxicogenomic responses. <i>Environmental Science: Nano</i> , 2018, 5, 2269-2281.	4.3	39
48	Photo-transformation of graphene oxide in the presence of co-existing metal ions regulated its toxicity to freshwater algae. <i>Water Research</i> , 2020, 176, 115735.	11.3	37
49	PPy-assisted fabrication of Ag/TiO ₂ visible-light photocatalyst and its immobilization on PAN fiber. <i>Materials and Design</i> , 2016, 104, 428-435.	7.0	34
50	Detection of phthalate esters in seawater by stir bar sorptive extraction and gas chromatography-mass spectrometry. <i>Marine Pollution Bulletin</i> , 2016, 108, 163-170.	5.0	33
51	Role of Nanoscale Hydroxyapatite in Disease Suppression of <i>Fusarium</i> -Infected Tomato. <i>Environmental Science & Technology</i> , 2021, 55, 13465-13476.	10.0	33
52	Preparation and Performance of PET-Braid-Reinforced Poly(vinylidene fluoride)/Graphene Hollow-Fiber Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2174-2182.	3.7	32
53	Hybrid Fiber-Optic Sensor for Seawater Temperature and Salinity Simultaneous Measurements. <i>Journal of Lightwave Technology</i> , 2022, 40, 880-886.	4.6	32
54	PVDF fiber membrane with ordered porous structure via 3D printing near field electrospinning. <i>Journal of Membrane Science</i> , 2021, 618, 118709.	8.2	31

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55	Inhibitory effects and oxidative target site of dibutyl phthalate on <i>Karenia brevis</i> . <i>Chemosphere</i> , 2015, 132, 32-39.	8.2	30
56	Green preparation of polyvinylidene fluoride loose nanofiltration hollow fiber membranes with multilayer structure for treating textile wastewater. <i>Science of the Total Environment</i> , 2021, 754, 141848.	8.0	30
57	Humic acid mitigated toxicity of graphene-family materials to algae through reducing oxidative stress and heteroaggregation. <i>Environmental Science: Nano</i> , 2019, 6, 1909-1920.	4.3	28
58	Review of femtosecond laser direct writing fiber-optic structures based on refractive index modification and their applications. <i>Optics and Laser Technology</i> , 2022, 146, 107473.	4.6	28
59	Dispersant selection for nanomaterials: Insight into dispersing functionalized carbon nanotubes by small polar aromatic organic molecules. <i>Carbon</i> , 2015, 91, 494-505.	10.3	26
60	Enhanced degradation of norfloxacin by Ce-mediated Fe-MIL-101: catalytic mechanism, degradation pathways, and potential applications in wastewater treatment. <i>Environmental Science: Nano</i> , 2021, 8, 2347-2359.	4.3	26
61	Trophic transfer of TiO ₂ nanoparticles from marine microalga (<i>Nitzschia closterium</i>) to scallop (<i>Chlamys farreri</i>) and related toxicity. <i>Environmental Science: Nano</i> , 2017, 4, 415-424.	4.3	24
62	High sensitivity seawater temperature sensor based on no-core optical fiber. <i>Optical Fiber Technology</i> , 2020, 54, 102115.	2.7	24
63	Yolk-porous shell nanospheres from silver-decorated titanium dioxide and silicon dioxide as an enhanced visible-light photocatalyst with guaranteed shielding for organic carrier. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 480-489.	9.4	23
64	Preparation of an electrospun tubular PU/GE nanofiber membrane for high flux oil/water separation. <i>RSC Advances</i> , 2019, 9, 33722-33732.	3.6	22
65	The Fate of p-Nitrophenol in Goethite-Rich and Sulfide-Containing Dynamic Anoxic/Oxic Environments. <i>Environmental Science & Technology</i> , 2020, 54, 9427-9436.	10.0	21
66	In situ photo-thermal conversion nanofiber membrane consisting of hydrophilic PAN layer and hydrophobic PVDF-ATO layer for improving solar-thermal membrane distillation. <i>Journal of Membrane Science</i> , 2021, 635, 119500.	8.2	21
67	Yolk-shell CdS@void@TiO ₂ composite particles with photocorrosion resistance for enhanced dye removal and hydrogen evolution. <i>Advanced Powder Technology</i> , 2019, 30, 1965-1975.	4.1	20
68	Dual effect of polypyrrole doping on cadmium sulfide for enhanced photocatalytic activity and robust photostability. <i>Journal of Materials Science</i> , 2018, 53, 2065-2076.	3.7	19
69	Ultra-highly photocatalytic removal of pollutants by polypyrrole/cadmium sulfide/polyether sulfone hybrid porous membrane in single-pass mode. <i>Chemical Engineering Journal</i> , 2022, 432, 134300.	12.7	19
70	Transformation and species identification of CuO nanoparticles in plant cells (<i>Nicotiana glauca</i>). <i>Environmental Science: Nano</i> , 2021, 8, 142-150.	4.3	18
71	Polypyrrole/cadmium sulfide hollow fiber with high performance contaminant removal and photocatalytic activity fabricated by layer-by-layer deposition and fiber-sacrifice template approach. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 94-102.	9.4	18
72	Simultaneous Removal of Selenite and Selenate by Nanosized Zerovalent Iron in Anoxic Systems: The Overlooked Role of Selenite. <i>Environmental Science & Technology</i> , 2021, 55, 6299-6308.	10.0	18

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73	In situ reduced graphene oxide-based polyurethane sponge hollow tube for continuous oil removal from water surface. <i>Environmental Science and Pollution Research</i> , 2018, 25, 4837-4845.	5.3	17
74	Graphene-Coated Poly(ethylene terephthalate) Nonwoven Hollow Tube for Continuous and Highly Effective Oil Collection from the Water Surface. <i>ACS Omega</i> , 2019, 4, 7237-7245.	3.5	16
75	Graphite powder coated polyurethane sponge hollow tube as a high efficiency and cost effective oil removal materials for continuous oil collection from water surface. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48921.	2.6	16
76	One-step preparation of tubular nanofibers and micro/nanospheres covered membrane with 3D micro/nano structure for highly efficient emulsified oil/water separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 122, 210-221.	5.3	16
77	Preparation and Properties of Oil-Absorptive Fiber Based on Polybutyl Methacrylate-inter-polyhydroxyethyl Methacrylate via Wet Spinning. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 818-824.	1.9	14
78	Preparation and properties of poly(butyl methacrylate/lauryl methacrylate) and its blend fiber. <i>Polymer Bulletin</i> , 2012, 69, 733-746.	3.3	14
79	Effects of Low-Molecular-Weight Organic Acids on Soil Micropores and Implication for Organic Contaminant Availability. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 1120-1132.	1.4	14
80	Facile synthesis of hierarchical Ti ₃ C ₂ @FeOOH nanocomposites for antimony contaminated wastewater treatment: Performance, mechanisms, reutilization, and sustainability. <i>Chemical Engineering Journal</i> , 2022, 450, 138038.	12.7	14
81	Continuous separation of oil from water surface by a novel tubular unit based on graphene coated polyurethane sponge. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2317-2326.	3.2	13
82	Simultaneous measurement of salinity and temperature based on Fabry-Perot interference and anti-resonance effect. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132248.	7.8	13
83	Simultaneous Measurement of Seawater Salinity and Temperature With Composite Fiber-Optic Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	11
84	A convenient oil-water separator from polybutylmethacrylate/graphene-deposited polyethylene terephthalate nonwoven fabricated by a facile coating method. <i>Progress in Organic Coatings</i> , 2018, 115, 181-187.	3.9	10
85	Encapsulated Cadmium Sulfide in Silicon Dioxide Porous Shells for Enhanced Photocatalytic Sustainability and Commendable Protection of Organic Carriers. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801933.	3.7	10
86	Graphene Adsorption and Separation Functional Materials. <i>Chemical Engineering and Technology</i> , 2019, 42, 266-286.	1.5	10
87	Transfer and transformation of CeO ₂ NPs along a terrestrial trophic food chain. <i>Environmental Science: Nano</i> , 2020, 7, 588-598.	4.3	8
88	Effect of stretching on continuous oil/water separation performance of polypropylene hollow fiber membrane. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 941-948.	2.4	7
89	Simultaneous Measurement of Temperature and Pressure Based on Ring-Shaped Sensing Structure With Polymer Coated No-Core Fiber. <i>IEEE Sensors Journal</i> , 2021, 21, 22783-22791.	4.7	7
90	The Preparation and Property of Organic Solvent Lignin and PVC Composite Materials. <i>Advanced Materials Research</i> , 0, 236-238, 1195-1198.	0.3	6

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91	Surface and Physical Mechanical Properties of Polypropylene/Poly (Butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (Methacrylate) and Characterization, 2012, 17, 557-567.	1.9	6
92	Adsorption and bioaccessibility of phenanthrene on carbon nanotubes in the in vitro gastrointestinal system. Science of the Total Environment, 2016, 566-567, 50-56.	8.0	6
93	Fate of ¹⁴ C-labeled few-layer graphene in natural soils: competitive roles of ferric oxides. Environmental Science: Nano, 2021, 8, 1425-1436.	4.3	6
94	Structure and Absorption Property of the Functional Fiber Based on Polymethacrylate Prepared via Reactive Extrusion and Melt Spinning. Polymer-Plastics Technology and Engineering, 2013, 52, 250-256.	1.9	5
95	Cuckoo search algorithm with interactive learning for economic dispatch. , 2017, , .		5
96	A Fiber Ring Cavity Laser Temperature Sensor Based on Polymer-Coated No-Core Fiber as Tunable Filter. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	5
97	Fabrication and characterization of oil-absorptive fiber by polypropylene and poly(butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (Methacrylate) Materials, 2014, 27, 3-17.	4.2	4
98	Facile preparation of multi-scale nanoarchitectures on cotton fabric with low surface energy for high performance self-cleaning. Journal of the Textile Institute, 2020, 111, 1603-1613.	1.9	4
99	Poly(tetrafluoroethylene-co-hexafluoropropylene)/Ferric Oxide Hybrid Membranes for High Concentration of Dye Wastewater Treatment by Heterogeneous Fenton-Like Catalysis. Catalysis Letters, 2021, 151, 3020-3029.	2.6	2
100	Fabrication and properties of graphene-coated polypropylene hollow fiber membranes. , 0, 68, 353-360.		2
101	Preparation and Characterization of Foaming Poly (phenylene ether ketone) PPEK by Using Supercritical Carbon Dioxide. Applied Mechanics and Materials, 2013, 423-426, 519-522.	0.2	1
102	Crystallization Kinetics of Polypropylene and Poly (butyl methacrylate-co-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 1Q Tf 50 302	1.9	1
103	Study on oil adsorption/desorption kinetics and polymer network parameters of poly(lauryl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (Methacrylate)	2.1	1
104	Structure and properties of ethylene-tetrafluoroethylene fibers fabricated by melt spinning. Textile Reseach Journal, 2018, 88, 1112-1124.	2.2	1