

# Jian Zhao

## List of Publications by Citations

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108  
papers

5,734  
citations

39  
h-index

75  
g-index

124  
ext. papers

7,102  
ext. citations

8.9  
avg, IF

6.32  
L-index

#	Paper	IF	Citations
108	Xylem- and phloem-based transport of CuO nanoparticles in maize ( <i>Zea mays</i> L.). <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4434-41	10.3	494
107	Graphene in the aquatic environment: adsorption, dispersion, toxicity and transformation. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9995-10009	10.3	466
106	Toxicity and internalization of CuO nanoparticles to prokaryotic alga <i>Microcystis aeruginosa</i> as affected by dissolved organic matter. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 6032-40	10.3	273
105	Sorption of antibiotic sulfamethoxazole varies with biochars produced at different temperatures. <i>Environmental Pollution</i> , <b>2013</b> , 181, 60-7	9.3	262
104	Characteristics and nutrient values of biochars produced from giant reed at different temperatures. <i>Bioresource Technology</i> , <b>2013</b> , 130, 463-71	11	240
103	CuO nanoparticle interaction with human epithelial cells: cellular uptake, location, export, and genotoxicity. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 1512-21	4	230
102	Effects of solution chemistry on adsorption of selected pharmaceuticals and personal care products (PPCPs) by graphenes and carbon nanotubes. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13197-206	10.3	199
101	Identification and avoidance of potential artifacts and misinterpretations in nanomaterial ecotoxicity measurements. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4226-46	10.3	187
100	Environmental processes and toxicity of metallic nanoparticles in aquatic systems as affected by natural organic matter. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 240-255	7.1	173
99	Heteroaggregation of graphene oxide with minerals in aqueous phase. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 2849-57	10.3	148
98	Mechanistic understanding toward the toxicity of graphene-family materials to freshwater algae. <i>Water Research</i> , <b>2017</b> , 111, 18-27	12.5	137
97	CuO Nanoparticle Interaction with <i>Arabidopsis thaliana</i> : Toxicity, Parent-Progeny Transfer, and Gene Expression. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 6008-16	10.3	133
96	Mitigation of CuO nanoparticle-induced bacterial membrane damage by dissolved organic matter. <i>Water Research</i> , <b>2013</b> , 47, 4169-78	12.5	130
95	Distribution of CuO nanoparticles in juvenile carp ( <i>Cyprinus carpio</i> ) and their potential toxicity. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 197, 304-10	12.8	123
94	Adsorption and inhibition of acetylcholinesterase by different nanoparticles. <i>Chemosphere</i> , <b>2009</b> , 77, 67-73	8.4	108
93	Environmental source, fate, and toxicity of microplastics. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 1243578	10.7	107
92	Enhanced Adsorption of p-Arsanilic 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 &amp; Technology</i> , <b>2018</b> , 52, 3466-3475	10.3	105

91	Adsorption and desorption of phenanthrene on carbon nanotubes in simulated gastrointestinal fluids. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 6018-24	10.3	102
90	Uptake of Engineered Nanoparticles by Food Crops: Characterization, Mechanisms, and Implications. <i>Annual Review of Food Science and Technology</i> , <b>2018</b> , 9, 129-153	14.7	94
89	Adsorption of sulfonamides on reduced graphene oxides as affected by pH and dissolved organic matter. <i>Environmental Pollution</i> , <b>2016</b> , 210, 85-93	9.3	92
88	Formation and Physicochemical Characteristics of Nano Biochar: Insight into Chemical and Colloidal Stability. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 10369-10379	10.3	91
87	Adsorption of phenanthrene on multilayer graphene as affected by surfactant and exfoliation. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 331-9	10.3	88
86	Remediation of petroleum contaminated soils through composting and rhizosphere degradation. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 190, 677-85	12.8	86
85	Interactions of CuO nanoparticles with the algae <i>Chlorella pyrenoidosa</i> : adhesion, uptake, and toxicity. <i>Nanotoxicology</i> , <b>2016</b> , 10, 1297-305	5.3	81
84	Oxidative stress-induced toxicity of CuO nanoparticles and related toxicogenomic responses in <i>Arabidopsis thaliana</i> . <i>Environmental Pollution</i> , <b>2016</b> , 212, 605-614	9.3	78
83	One-Step Assembly of a Biomimetic Biopolymer Coating for Particle Surface Engineering. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802851	24	72
82	Photodegradation Elevated the Toxicity of Polystyrene Microplastics to Grouper () through Disrupting Hepatic Lipid Homeostasis. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6202-6212	10.3	67
81	Enhanced removal of roxarsone by Fe <sub>3</sub> O <sub>4</sub> @3D graphene nanocomposites: synergistic adsorption and mechanism. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 2134-2143	7.1	67
80	Effect of co-existing kaolinite and goethite on the aggregation of graphene oxide in the aquatic environment. <i>Water Research</i> , <b>2016</b> , 102, 313-320	12.5	60
79	Effects of Chloride Ions on Dissolution, ROS Generation, and Toxicity of Silver Nanoparticles under UV Irradiation. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 4842-4849	10.3	57
78	Biodegradation of Crude Oil in Contaminated Soils by Free and Immobilized Microorganisms. <i>Pedosphere</i> , <b>2012</b> , 22, 717-725	5	57
77	Uptake, Distribution, and Transformation of CuO NPs in a Floating Plant <i>Eichhornia crassipes</i> and Related Stomatal Responses. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7686-7695	10.3	55
76	Pulmonary surfactant suppressed phenanthrene adsorption on carbon nanotubes through solubilization and competition as examined by passive dosing technique. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 5369-77	10.3	48
75	Adsorption of Bovine Serum Albumin and Lysozyme on Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 22249-22257	3.8	46
74	Carbon Nanoparticle Hybrid Aerogels: 3D Double-Interconnected Network Porous Microstructure, Thermoelectric, and Solvent-Removal Functions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21820-21828	9.5	45

73	Downregulation of PCAF by miR-181a/b provides feedback regulation to TNF- $\alpha$ -induced transcription of proinflammatory genes in liver epithelial cells. <i>Journal of Immunology</i> , <b>2012</b> , 188, 1266-74	5.3	41
72	Graphene quantum dots in alveolar macrophage: uptake-exocytosis, accumulation in nuclei, nuclear responses and DNA cleavage. <i>Particle and Fibre Toxicology</i> , <b>2018</b> , 15, 45	8.4	41
71	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
70	Trophic transfer and accumulation of TiO <sub>2</sub> nanoparticles from clamworm ( <i>Perinereis aibuhitensis</i> ) to juvenile turbot ( <i>Scophthalmus maximus</i> ) along a marine benthic food chain. <i>Water Research</i> , <b>2016</b> , 95, 250-9	12.5	39
69	Phenanthrene binding by humic acid-protein complexes as studied by passive dosing technique. <i>Environmental Pollution</i> , <b>2014</b> , 184, 145-53	9.3	37
68	A strategy to improve the thermoelectric performance of conducting polymer nanostructures. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 47-53	7.1	36
67	Self-assembled proteinaceous wound dressings attenuate secondary trauma and improve wound healing in vivo. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 4645-4655	7.3	35
66	Engineered nanomaterials in the environment: Are they safe?. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2021</b> , 51, 1443-1478	11.1	31
65	Toxicity of GO to Freshwater Algae in the Presence of AlO Particles with Different Morphologies: Importance of Heteroaggregation. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13448-13456	10.3	31
64	Adsorption and inhibition of butyrylcholinesterase by different engineered nanoparticles. <i>Chemosphere</i> , <b>2010</b> , 79, 86-92	8.4	29
63	Microplastics Reduce Lipid Digestion in Simulated Human Gastrointestinal System. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12285-12294	10.3	29
62	Interaction of CuO nanoparticles with plant cells: internalization, oxidative stress, electron transport chain disruption, and toxicogenomic responses. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2269-2281	7.1	29
61	Detection of phthalate esters in seawater by stir bar sorptive extraction and gas chromatography-mass spectrometry. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 108, 163-70	6.7	26
60	Photo-transformation of graphene oxide in the presence of co-existing metal ions regulated its toxicity to freshwater algae. <i>Water Research</i> , <b>2020</b> , 176, 115735	12.5	24
59	Rapid capture of trace precious metals by amyloid-like protein membrane with high adsorption capacity and selectivity. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3438-3449	13	23
58	Dispersant selection for nanomaterials: Insight into dispersing functionalized carbon nanotubes by small polar aromatic organic molecules. <i>Carbon</i> , <b>2015</b> , 91, 494-505	10.4	23
57	Genotoxic response and damage recovery of macrophages to graphene quantum dots. <i>Science of the Total Environment</i> , <b>2019</b> , 664, 536-545	10.2	21
56	Interaction of CuO nanoparticles with duckweed ( <i>Lemna minor</i> , L): Uptake, distribution and ROS production sites. <i>Environmental Pollution</i> , <b>2018</b> , 243, 543-552	9.3	21

55	Inhibitory effects and oxidative target site of dibutyl phthalate on <i>Karenia brevis</i> . <i>Chemosphere</i> , <b>2015</b> , 132, 32-9	8.4	20
54	Humic acid mitigated toxicity of graphene-family materials to algae through reducing oxidative stress and heteroaggregation. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1909-1920	7.1	19
53	Interaction of graphene oxide with co-existing arsenite and arsenate: Adsorption, transformation and combined toxicity. <i>Environment International</i> , <b>2019</b> , 131, 104992	12.9	19
52	Trophic transfer of TiO <sub>2</sub> nanoparticles from marine microalga ( <i>Nitzschia closterium</i> ) to scallop ( <i>Chlamys farreri</i> ) and related toxicity. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 415-424	7.1	17
51	Accurate Prediction of Neoadjuvant Chemotherapy Pathological Complete Remission (pCR) for the Four Sub-Types of Breast Cancer. <i>IEEE Access</i> , <b>2019</b> , 7, 134697-134706	3.5	16
50	Graphene oxide mediated reduction of silver ions to silver nanoparticles under environmentally relevant conditions: Kinetics and mechanisms. <i>Science of the Total Environment</i> , <b>2019</b> , 679, 270-278	10.2	16
49	Accumulation of metal-based nanoparticles in marine bivalve mollusks from offshore aquaculture as detected by single particle ICP-MS. <i>Environmental Pollution</i> , <b>2020</b> , 260, 114043	9.3	16
48	Cleavage and transformation inhibition of extracellular antibiotic resistance genes by graphene oxides with different lateral sizes. <i>Science of the Total Environment</i> , <b>2019</b> , 695, 133932	10.2	14
47	Copper Oxide Nanoparticle-Embedded Hydrogels Enhance Nutrient Supply and Growth of Lettuce () Infected with <i>f. sp.</i> . <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13432-13442	10.3	13
46	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> , <b>2014</b> , 45, 1120-1132	1.5	12
45	Pyrolygneous acid mitigated dissemination of antibiotic resistance genes in soil. <i>Environment International</i> , <b>2020</b> , 145, 106158	12.9	12
44	Amyloid-Mediated Fabrication of Organic/Inorganic Hybrid Materials and Their Biomedical Applications. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2001060	4.6	12
43	CuO Nanoparticle Exposure Impairs the Root Tip Cell Walls of <i>Arabidopsis thaliana</i> Seedlings. <i>Water, Air, and Soil Pollution</i> , <b>2020</b> , 231, 1	2.6	11
42	Controlling Long-Distance Photoactuation with Protein Additives. <i>Small</i> , <b>2020</b> , 16, e2000043	11	11
41	Transformation and species identification of CuO nanoparticles in plant cells ( <i>Nicotiana tabacum</i> ). <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2724-2735	7.1	11
40	Interaction of Microplastics with Antibiotics in Aquatic Environment: Distribution, Adsorption, and Toxicity. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15579-15595	10.3	10
39	New insight into the photo-transformation mechanisms of graphene oxide under UV-A, UV-B and UV-C lights. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123683	12.8	9
38	Biomimetic Amyloid-like Protein/Laponite Nanocomposite Thin Film through Regulating Protein Conformation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35435-35444	9.5	8

37	Vc-Functionalized Fe <sub>3</sub> O <sub>4</sub> Nanocomposites as Peroxidase-like Mimetics for H <sub>2</sub> O <sub>2</sub> and Glucose Sensing. <i>Chemical Research in Chinese Universities</i> , <b>2018</b> , 34, 260-268	2.2	8
36	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> , <b>2021</b> , 8, 2347-2359	7.1	8
35	Individual and combined applications of biochar and pyrolytic acid mitigate dissemination of antibiotic resistance genes in agricultural soil. <i>Science of the Total Environment</i> , <b>2021</b> , 796, 148962	10.2	8
34	The Fate of p-Nitrophenol in Goethite-Rich and Sulfide-Containing Dynamic Anoxic/Oxic Environments. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9427-9436	10.3	7
33	Dynamically Vulcanized Styrene-Butadiene Rubber/Ethylene-Vinyl Acetate Copolymer/High Impact Polystyrene Blends Compatibilized by Styrene-Butadiene-Styrene Block Copolymer. <i>Journal of Macromolecular Science - Physics</i> , <b>2010</b> , 50, 51-61	1.4	7
32	Synergy between cobalt and nickel on NiCo <sub>2</sub> O <sub>4</sub> nanosheets promotes peroxydisulfate activation for efficient norfloxacin degradation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 306, 121091	21.8	7
31	Role of Nanoscale Hydroxyapatite in Disease Suppression of -Infected Tomato. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13465-13476	10.3	7
30	Progress in antimony capturing by superior materials: Mechanisms, properties and perspectives. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 130013	14.7	7
29	Plant regeneration via somatic embryogenesis of <i>Elymus sibiricus</i> cv. 'huancao No. 2'. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2006</b> , 84, 285-292	2.7	5
28	Simultaneous Removal of Selenite and Selenate by Nanosized Zerovalent Iron in Anoxic Systems: The Overlooked Role of Selenite. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 6299-6308	10.3	5
27	Adsorption and bioaccessibility of phenanthrene on carbon nanotubes in the in vitro gastrointestinal system. <i>Science of the Total Environment</i> , <b>2016</b> , 566-567, 50-56	10.2	5
26	Rheological, mechanical and morphological properties of thermoplastic vulcanizates based on high impact polystyrene and styrene-butadiene rubber. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, NA-NA	2.9	4
25	Agrobacterium-mediated genetic transformation of <i>Elymus breviaristatus</i> with <i>Pseudomonas pseudoalcaligenes</i> insecticidal protein gene. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2007</b> , 89, 159-168	2.7	4
24	Molecular modeling of nanoplastic transformations in alveolar fluid and impacts on the lung surfactant film. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 127872	12.8	4
23	Few-Mode Fibers With Uniform Differential Mode Group Delay for Microwave Photonic Signal Processing. <i>IEEE Access</i> , <b>2020</b> , 8, 135176-135183	3.5	4
22	Simultaneous Temperature and Strain Measurements Using Polarization-Maintaining Few-Mode Bragg Gratings. <i>Sensors</i> , <b>2019</b> , 19,	3.8	4
21	Functionalized polystyrene nanoplastic-induced energy homeostasis imbalance and the immunomodulation dysfunction of marine clams ( <i>Meretrix meretrix</i> ) at environmentally relevant concentrations. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 2030-2048	7.1	4
20	Study of a Coil Heat Exchanger with an Ice Storage System. <i>Energies</i> , <b>2017</b> , 10, 1982	3.1	3

19	Benzo[a]pyrene and heavy metal ion adsorption on nanoplastics regulated by humic acid: Cooperation/competition mechanisms revealed by molecular dynamics simulations. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127431	12.8	3
18	Graphitic Carbon Nitride (CN) Reduces Cadmium and Arsenic Phytotoxicity and Accumulation in Rice (L.). <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
17	Environmental risks of disposable face masks during the pandemic of COVID-19: Challenges and management.. <i>Science of the Total Environment</i> , <b>2022</b> , 825, 153880	10.2	3
16	Combustion characteristic of coalammonia composite. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2017</b> , 39, 345-351	1.6	2
15	Phosphate induced surface transformation alleviated the cytotoxicity of YO nanoparticles to tobacco BY-2 cells. <i>Science of the Total Environment</i> , <b>2020</b> , 732, 139276	10.2	2
14	Transfer and transformation of CeO <sub>2</sub> NPs along a terrestrial trophic food chain. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 588-598	7.1	2
13	Superior Deep-Ultraviolet Source Pumped by an Electron Beam for NLOS Communication. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 3391-3394	2.9	2
12	Fate of <sup>14</sup> C-labeled few-layer graphene in natural soils: competitive roles of ferric oxides. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 1425-1436	7.1	2
11	Dispersion of particles in the coatings characterized by laser scanning confocal microscopy (LSCM) I: Vertical dispersion of particles in the coatings and the weathering property studied by orthogonal analysis method of LSCM. <i>Science China Technological Sciences</i> , <b>2010</b> , 53, 2247-2251	3.5	1
10	Selenite capture by MIL-101 (Fe) through FeOSe bonds at free coordination Fe sites. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 424, 127715	12.8	1
9	Light-driven inactivation of harmful algae <i>Microcystis aeruginosa</i> and degradation of microcystin by oxygen-doped carbon nitride nanosheets. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 128094	14.7	1
8	Heteroaggregation between graphene oxide and titanium dioxide particles of different shapes in aqueous phase.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 428, 128146	12.8	0
7	Characteristics of algae-derived biochars and their sorption and remediation performance for sulfamethoxazole in marine environment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133092	14.7	0
6	Adsorption and catalytic degradation of preservative parabens by graphene-family nanomaterials. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150520	10.2	0
5	Competitive and/or cooperative interactions of graphene-family materials and benzo[a]pyrene with pulmonary surfactant: a computational and experimental study.. <i>Particle and Fibre Toxicology</i> , <b>2021</b> , 18, 46	8.4	0
4	Interaction and combined toxicity of microplastics and per- and polyfluoroalkyl substances in aquatic environment. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16,	5.8	0
3	Ultrathin-Branched Pt Grown on Quasi-Sphere Pd with Enhanced Electrocatalytic Performances. <i>ChemistrySelect</i> , <b>2018</b> , 3, 1531-1536	1.8	
2	Theoretical and Experimental Investigations of Identifying the Ingredients of an Oil/Water Mixture Based on a Characteristic Fluid Inverse Problem. <i>International Journal of Thermophysics</i> , <b>2016</b> , 37, 1	2.1	

- 1 Hydrocarbon degradation potential of autochthonous bacteria from the Yellow River delta soil.  
*Diqiu Huaxue*, **2006**, 25, 249-249