

Jian Zhao

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4775711/jian-zhao-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Synergy between cobalt and nickel on NiCo ₂ O ₄ nanosheets promotes peroxymonosulfate activation for efficient norfloxacin degradation. <i>Applied Catalysis B: Environmental</i> , 2022 , 306, 121091	21.8	7
107	Heteroaggregation between graphene oxide and titanium dioxide particles of different shapes in aqueous phase.. <i>Journal of Hazardous Materials</i> , 2022 , 428, 128146	12.8	0
106	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> , 2022 , 424, 127431	12.8	3
105	Adsorption and catalytic degradation of preservative parabens by graphene-family nanomaterials. <i>Science of the Total Environment</i> , 2022 , 806, 150520	10.2	0
104	Environmental risks of disposable face masks during the pandemic of COVID-19: Challenges and management.. <i>Science of the Total Environment</i> , 2022 , 825, 153880	10.2	3
103	Interaction and combined toxicity of microplastics and per- and polyfluoroalkyl substances in aquatic environment. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16,	5.8	0
102	Interaction of Microplastics with Antibiotics in Aquatic Environment: Distribution, Adsorption, and Toxicity. <i>Environmental Science & Technology</i> , 2021 , 55, 15579-15595	10.3	10
101	Selenite capture by MIL-101 (Fe) through FeOSe bonds at free coordination Fe sites. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127715	12.8	1
100	Molecular modeling of nanoplastic transformations in alveolar fluid and impacts on the lung surfactant film. <i>Journal of Hazardous Materials</i> , 2021 , 127872	12.8	4
99	Characteristics of algae-derived biochars and their sorption and remediation performance for sulfamethoxazole in marine environment. <i>Chemical Engineering Journal</i> , 2021 , 133092	14.7	0
98	Graphitic Carbon Nitride (CN) Reduces Cadmium and Arsenic Phytotoxicity and Accumulation in Rice (L.). <i>Nanomaterials</i> , 2021 , 11,	5.4	3
97	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	10.3	5
96	Role of Nanoscale Hydroxyapatite in Disease Suppression of -Infected Tomato. <i>Environmental Science & Technology</i> , 2021 , 55, 13465-13476	10.3	7
95	Engineered nanomaterials in the environment: Are they safe?. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 1443-1478	11.1	31
94	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> , 2021 , 403, 123683	12.8	9
93	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> , 2021 , 417, 128094	14.7	1
92	Environmental source, fate, and toxicity of microplastics. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124357	10.7	107

91	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	7.1	8
90	Copper Oxide Nanoparticle-Embedded Hydrogels Enhance Nutrient Supply and Growth of Lettuce () Infected with <i>f. sp.</i> . <i>Environmental Science & Technology</i> , 2021 , 55, 13432-13442	10.3	13
89	Progress in antimony capturing by superior materials: Mechanisms, properties and perspectives. <i>Chemical Engineering Journal</i> , 2021 , 419, 130013	14.7	7
88	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> , 2021 , 796, 148962	10.2	8
87	Fate of ¹⁴ C-labeled few-layer graphene in natural soils: competitive roles of ferric oxides. <i>Environmental Science: Nano</i> , 2021 , 8, 1425-1436	7.1	2
86	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> , 2021 , 8, 2030-2048	7.1	4
85	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> , 2021 , 18, 46	8.4	0
84	Phosphate induced surface transformation alleviated the cytotoxicity of YO nanoparticles to tobacco BY-2 cells. <i>Science of the Total Environment</i> , 2020 , 732, 139276	10.2	2
83	Photodegradation Elevated the Toxicity of Polystyrene Microplastics to Grouper () through Disrupting Hepatic Lipid Homeostasis. <i>Environmental Science & Technology</i> , 2020 , 54, 6202-6212	10.3	67
82	Biomimetic Amyloid-like Protein/Laponite Nanocomposite Thin Film through Regulating Protein Conformation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35435-35444	9.5	8
81	CuO Nanoparticle Exposure Impairs the Root Tip Cell Walls of Arabidopsis thaliana Seedlings. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	11
80	The Fate of p-Nitrophenol in Goethite-Rich and Sulfide-Containing Dynamic Anoxic/Oxic Environments. <i>Environmental Science & Technology</i> , 2020 , 54, 9427-9436	10.3	7
79	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	9.3	16
78	Rapid capture of trace precious metals by amyloid-like protein membrane with high adsorption capacity and selectivity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3438-3449	13	23
77	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	12.5	24
76	Controlling Long-Distance Photoactuation with Protein Additives. <i>Small</i> , 2020 , 16, e2000043	11	11
75	Transfer and transformation of CeO ₂ NPs along a terrestrial trophic food chain. <i>Environmental Science: Nano</i> , 2020 , 7, 588-598	7.1	2
74	Pyrolytic acid mitigated dissemination of antibiotic resistance genes in soil. <i>Environment International</i> , 2020 , 145, 106158	12.9	12

73	Few-Mode Fibers With Uniform Differential Mode Group Delay for Microwave Photonic Signal Processing. <i>IEEE Access</i> , 2020 , 8, 135176-135183	3.5	4
72	Superior Deep-Ultraviolet Source Pumped by an Electron Beam for NLOS Communication. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3391-3394	2.9	2
71	Microplastics Reduce Lipid Digestion in Simulated Human Gastrointestinal System. <i>Environmental Science & Technology</i> , 2020 , 54, 12285-12294	10.3	29
70	Amyloid-Mediated Fabrication of Organic/Inorganic Hybrid Materials and Their Biomedical Applications. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001060	4.6	12
69	Accurate Prediction of Neoadjuvant Chemotherapy Pathological Complete Remission (pCR) for the Four Sub-Types of Breast Cancer. <i>IEEE Access</i> , 2019 , 7, 134697-134706	3.5	16
68	Degradation of Tetrabromobisphenol A by Sulfidated Nanoscale Zerovalent Iron in a Dynamic Two-Step Anoxic/Oxic Process. <i>Environmental Science & Technology</i> , 2019 , 53, 8105-8114	10.3	39
67	Graphene oxide mediated reduction of silver ions to silver nanoparticles under environmentally relevant conditions: Kinetics and mechanisms. <i>Science of the Total Environment</i> , 2019 , 679, 270-278	10.2	16
66	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	7.1	19
65	Cleavage and transformation inhibition of extracellular antibiotic resistance genes by graphene oxides with different lateral sizes. <i>Science of the Total Environment</i> , 2019 , 695, 133932	10.2	14
64	Interaction of graphene oxide with co-existing arsenite and arsenate: Adsorption, transformation and combined toxicity. <i>Environment International</i> , 2019 , 131, 104992	12.9	19
63	Transformation and species identification of CuO nanoparticles in plant cells (<i>Nicotiana tabacum</i>). <i>Environmental Science: Nano</i> , 2019 , 6, 2724-2735	7.1	11
62	Genotoxic response and damage recovery of macrophages to graphene quantum dots. <i>Science of the Total Environment</i> , 2019 , 664, 536-545	10.2	21
61	Simultaneous Temperature and Strain Measurements Using Polarization-Maintaining Few-Mode Bragg Gratings. <i>Sensors</i> , 2019 , 19,	3.8	4
60	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 & Technology</i> , 2018 , 52, 3466-3475	10.3	105
59	Ultrathin-Branched Pt Grown on Quasi-Sphere Pd with Enhanced Electrocatalytic Performances. <i>ChemistrySelect</i> , 2018 , 3, 1531-1536	1.8	
58	Effects of Chloride Ions on Dissolution, ROS Generation, and Toxicity of Silver Nanoparticles under UV Irradiation. <i>Environmental Science & Technology</i> , 2018 , 52, 4842-4849	10.3	57
57	Uptake of Engineered Nanoparticles by Food Crops: Characterization, Mechanisms, and Implications. <i>Annual Review of Food Science and Technology</i> , 2018 , 9, 129-153	14.7	94
56	One-Step Assembly of a Biomimetic Biopolymer Coating for Particle Surface Engineering. <i>Advanced Materials</i> , 2018 , 30, e1802851	24	72

55	Vc-Functionalized Fe ₃ O ₄ Nanocomposites as Peroxidase-like Mimetics for H ₂ O ₂ and Glucose Sensing. <i>Chemical Research in Chinese Universities</i> , 2018 , 34, 260-268	2.2	8
54	Formation and Physicochemical Characteristics of Nano Biochar: Insight into Chemical and Colloidal Stability. <i>Environmental Science & Technology</i> , 2018 , 52, 10369-10379	10.3	91
53	Self-assembled proteinaceous wound dressings attenuate secondary trauma and improve wound healing in vivo. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4645-4655	7.3	35
52	Graphene quantum dots in alveolar macrophage: uptake-exocytosis, accumulation in nuclei, nuclear responses and DNA cleavage. <i>Particle and Fibre Toxicology</i> , 2018 , 15, 45	8.4	41
51	Toxicity of GO to Freshwater Algae in the Presence of AlO Particles with Different Morphologies: Importance of Heteroaggregation. <i>Environmental Science & Technology</i> , 2018 , 52, 13448-13456	10.3	31
50	Interaction of CuO nanoparticles with duckweed (<i>Lemna minor</i> . L): Uptake, distribution and ROS production sites. <i>Environmental Pollution</i> , 2018 , 243, 543-552	9.3	21
49	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	7.1	29
48	Combustion characteristic of coal/ammonia composite. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 345-351	1.6	2
47	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	7.1	17
46	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	10.3	55
45	Carbon Nanoparticle Hybrid Aerogels: 3D Double-Interconnected Network Porous Microstructure, Thermoelectric, and Solvent-Removal Functions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21820-21828	9.5	45
44	A strategy to improve the thermoelectric performance of conducting polymer nanostructures. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 47-53	7.1	36
43	Mechanistic understanding toward the toxicity of graphene-family materials to freshwater algae. <i>Water Research</i> , 2017 , 111, 18-27	12.5	137
42	Enhanced removal of roxarsone by Fe ₃ O ₄ @3D graphene nanocomposites: synergistic adsorption and mechanism. <i>Environmental Science: Nano</i> , 2017 , 4, 2134-2143	7.1	67
41	Study of a Coil Heat Exchanger with an Ice Storage System. <i>Energies</i> , 2017 , 10, 1982	3.1	3
40	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> , 2016 , 37, 1	2.1	
39	CuO Nanoparticle Interaction with <i>Arabidopsis thaliana</i> : Toxicity, Parent-Progeny Transfer, and Gene Expression. <i>Environmental Science & Technology</i> , 2016 , 50, 6008-16	10.3	133
38	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, 250-9	12.5	39

37	Adsorption of sulfonamides on reduced graphene oxides as affected by pH and dissolved organic matter. <i>Environmental Pollution</i> , 2016 , 210, 85-93	9.3	92
36	Oxidative stress-induced toxicity of CuO nanoparticles and related toxicogenomic responses in <i>Arabidopsis thaliana</i> . <i>Environmental Pollution</i> , 2016 , 212, 605-614	9.3	78
35	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	7.1	173
34	Interactions of CuO nanoparticles with the algae <i>Chlorella pyrenoidosa</i> : adhesion, uptake, and toxicity. <i>Nanotoxicology</i> , 2016 , 10, 1297-305	5.3	81
33	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	12.5	60
32	Detection of phthalate esters in seawater by stir bar sorptive extraction and gas chromatography-mass spectrometry. <i>Marine Pollution Bulletin</i> , 2016 , 108, 163-70	6.7	26
31	Adsorption and bioaccessibility of phenanthrene on carbon nanotubes in the in vitro gastrointestinal system. <i>Science of the Total Environment</i> , 2016 , 566-567, 50-56	10.2	5
30	Inhibitory effects and oxidative target site of dibutyl phthalate on <i>Karenia brevis</i> . <i>Chemosphere</i> , 2015 , 132, 32-9	8.4	20
29	Dispersant selection for nanomaterials: Insight into dispersing functionalized carbon nanotubes by small polar aromatic organic molecules. <i>Carbon</i> , 2015 , 91, 494-505	10.4	23
28	Heteroaggregation of graphene oxide with minerals in aqueous phase. <i>Environmental Science & Technology</i> , 2015 , 49, 2849-57	10.3	148
27	Phenanthrene binding by humic acid-protein complexes as studied by passive dosing technique. <i>Environmental Pollution</i> , 2014 , 184, 145-53	9.3	37
26	Graphene in the aquatic environment: adsorption, dispersion, toxicity and transformation. <i>Environmental Science & Technology</i> , 2014 , 48, 9995-10009	10.3	466
25	Adsorption of Bovine Serum Albumin and Lysozyme on Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22249-22257	3.8	46
24	Identification and avoidance of potential artifacts and misinterpretations in nanomaterial ecotoxicity measurements. <i>Environmental Science & Technology</i> , 2014 , 48, 4226-46	10.3	187
23	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	1.5	12
22	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, 13197-206	10.3	199
21	Adsorption of phenanthrene on multilayer graphene as affected by surfactant and exfoliation. <i>Environmental Science & Technology</i> , 2014 , 48, 331-9	10.3	88
20	Characteristics and nutrient values of biochars produced from giant reed at different temperatures. <i>Bioresource Technology</i> , 2013 , 130, 463-71	11	240

19	Sorption of antibiotic sulfamethoxazole varies with biochars produced at different temperatures. <i>Environmental Pollution</i> , 2013 , 181, 60-7	9.3	262
18	Mitigation of CuO nanoparticle-induced bacterial membrane damage by dissolved organic matter. <i>Water Research</i> , 2013 , 47, 4169-78	12.5	130
17	Xylem- and phloem-based transport of CuO nanoparticles in maize (<i>Zea mays</i> L.). <i>Environmental Science & Technology</i> , 2012 , 46, 4434-41	10.3	494
16	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, 5369-77	10.3	48
15	CuO nanoparticle interaction with human epithelial cells: cellular uptake, location, export, and genotoxicity. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1512-21	4	230
14	Biodegradation of Crude Oil in Contaminated Soils by Free and Immobilized Microorganisms. <i>Pedosphere</i> , 2012 , 22, 717-725	5	57
13	Downregulation of PCAF by miR-181a/b provides feedback regulation to TNF- α -induced transcription of proinflammatory genes in liver epithelial cells. <i>Journal of Immunology</i> , 2012 , 188, 1266-74	5.3	41
12	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, 6032-40	10.3	273
11	Distribution of CuO nanoparticles in juvenile carp (<i>Cyprinus carpio</i>) and their potential toxicity. <i>Journal of Hazardous Materials</i> , 2011 , 197, 304-10	12.8	123
10	Adsorption and desorption of phenanthrene on carbon nanotubes in simulated gastrointestinal fluids. <i>Environmental Science & Technology</i> , 2011 , 45, 6018-24	10.3	102
9	Remediation of petroleum contaminated soils through composting and rhizosphere degradation. <i>Journal of Hazardous Materials</i> , 2011 , 190, 677-85	12.8	86
8	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> , 2010 , 50, 51-61	1.4	7
7	Adsorption and inhibition of butyrylcholinesterase by different engineered nanoparticles. <i>Chemosphere</i> , 2010 , 79, 86-92	8.4	29
6	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> , 2010 , 53, 2247-2251	3.5	1
5	Rheological, mechanical and morphological properties of thermoplastic vulcanizates based on high impact polystyrene and styrene-butadiene rubber. <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	4
4	Adsorption and inhibition of acetylcholinesterase by different nanoparticles. <i>Chemosphere</i> , 2009 , 77, 67-73	8.4	108
3	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> , 2007 , 89, 159-168	2.7	4
2	Hydrocarbon degradation potential of autochthonous bacteria from the Yellow River delta soil. <i>Diqiu Huaxue</i> , 2006 , 25, 249-249		

- 1 Plant regeneration via somatic embryogenesis of *Elymus sibiricus* cv. ǎhuancao No. 2 *Plant Cell, Tissue and Organ Culture*, **2006**, 84, 285-292

2.7 5