

Xiao-Shan Zhu

List of Publications by Year in descending order

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85
papers

4,984
citations

126708

33
h-index

91712

69
g-index

91
all docs

91
docs citations

91
times ranked

5625
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative toxicity of several metal oxide nanoparticle aqueous suspensions to Zebrafish (<i>Danio rerio</i>). <i>Journal of Toxicology and Environmental Health</i> , 2008, 43, 278-284.	0.784314	452
2	Toxicity and bioaccumulation of TiO ₂ nanoparticle aggregates in <i>Daphnia magna</i> . <i>Chemosphere</i> , 2010, 78, 209-215.	4.2	437
3	Acute toxicities of six manufactured nanomaterial suspensions to <i>Daphnia magna</i> . <i>Journal of Nanoparticle Research</i> , 2009, 11, 67-75.	0.8	289
4	Trophic transfer of TiO ₂ nanoparticles from <i>Daphnia</i> to zebrafish in a simplified freshwater food chain. <i>Chemosphere</i> , 2010, 79, 928-933.	4.2	245
5	The impact of ZnO nanoparticle aggregates on the embryonic development of zebrafish (<i>Danio rerio</i>). <i>Journal of Toxicology and Environmental Health</i> , 2011, 49, 237-241.	1.3	241
6	Toxicity Assessment of Iron Oxide Nanoparticles in Zebrafish (<i>Danio rerio</i>) Early Life Stages. <i>PLoS ONE</i> , 2012, 7, e46286.	1.1	200
7	DEVELOPMENTAL TOXICITY IN ZEBRAFISH (<i>DANIO RERIO</i>) EMBRYOS AFTER EXPOSURE TO MANUFACTURED NANOMATERIALS: BUCKMINSTERFULLERENE AGGREGATES (nC60) AND FULLEROL. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 976.	2.2	190
8	TiO ₂ Nanoparticles in the Marine Environment: Impact on the Toxicity of Tributyltin to Abalone (<i>Haliotis diversicolor</i>) Embryos. <i>Environmental Science & Technology</i> , 2011, 45, 3753-3758.	4.6	184
9	The distribution, characteristics and ecological risks of microplastics in the mangroves of Southern China. <i>Science of the Total Environment</i> , 2020, 708, 135025.	3.9	169
10	TiO ₂ nanoparticles in the marine environment: Physical effects responsible for the toxicity on algae <i>Phaeodactylum tricornutum</i> . <i>Science of the Total Environment</i> , 2016, 565, 818-826.	3.9	154
11	Disruption of zebrafish (<i>Danio rerio</i>) reproduction upon chronic exposure to TiO ₂ nanoparticles. <i>Chemosphere</i> , 2011, 83, 461-467.	4.2	151
12	Oxidative stress and growth inhibition in the freshwater fish <i>Carassius auratus</i> induced by chronic exposure to sublethal fullerene aggregates. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1979-1985.	2.2	122
13	Behavior and Potential Impacts of Metal-Based Engineered Nanoparticles in Aquatic Environments. <i>Nanomaterials</i> , 2017, 7, 21.	1.9	112
14	Effects of short-term invasion of <i>Spartina alterniflora</i> and the subsequent restoration of native mangroves on the soil organic carbon, nitrogen and phosphorus stock. <i>Chemosphere</i> , 2017, 184, 774-783.	4.2	97
15	The toxicity and oxidative stress of TiO ₂ nanoparticles in marine abalone (<i>Haliotis diversicolor</i>). <i>Journal of Toxicology and Environmental Health</i> , 2011, 49, 237-241.	1.3	241
16	Algae response to engineered nanoparticles: current understanding, mechanisms and implications. <i>Environmental Science: Nano</i> , 2019, 6, 1026-1042.	2.2	96
17	Individual and joint toxic effects of pentachlorophenol and bisphenol A on the development of zebrafish (<i>Danio rerio</i>) embryo. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 774-780.	2.9	95
18	A mechanism study on toxicity of graphene oxide to <i>Daphnia magna</i> : Direct link between bioaccumulation and oxidative stress. <i>Environmental Pollution</i> , 2018, 234, 953-959.	3.7	89

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19	Effects of Carbon Quantum Dots on Aquatic Environments: Comparison of Toxicity to Organisms at Different Trophic Levels. <i>Environmental Science & Technology</i> , 2018, 52, 14445-14451.	4.6	76
20	Evaluation of an innovative polyvinyl chloride (PVC) ultrafiltration membrane for wastewater treatment. <i>Separation and Purification Technology</i> , 2009, 70, 71-78.	3.9	75
21	Distribution and ecological risk assessment of heavy metals in surface sediments of a typical restored mangrove-aquaculture wetland in Shenzhen, China. <i>Marine Pollution Bulletin</i> , 2017, 124, 1033-1039.	2.3	59
22	Titanium dioxide nanoparticles as carrier facilitate bioaccumulation of phenanthrene in marine bivalve, ark shell (<i>Scapharca subcrenata</i>). <i>Environmental Pollution</i> , 2014, 192, 59-64.	3.7	56
23	Tolerance and bioaccumulation of Cd and Cu in <i>Sesuvium portulacastrum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 147, 306-312.	2.9	56
24	Quantifying the Dynamics of Polystyrene Microplastics UV-Aging Process. <i>Environmental Science and Technology Letters</i> , 2022, 9, 50-56.	3.9	56
25	Copper Adsorption to Microplastics and Natural Particles in Seawater: A Comparison of Kinetics, Isotherms, and Bioavailability. <i>Environmental Science & Technology</i> , 2021, 55, 13923-13931.	4.6	51
26	Tributyltin toxicity in abalone (<i>Haliotis diversicolor supertexta</i>) assessed by antioxidant enzyme activity, metabolic response, and histopathology. <i>Journal of Hazardous Materials</i> , 2010, 183, 428-433.	6.5	49
27	Toxicity of 17 Disinfection By-products to Different Trophic Levels of Aquatic Organisms: Ecological Risks and Mechanisms. <i>Environmental Science & Technology</i> , 2021, 55, 10534-10541.	4.6	49
28	TiO ₂ nanoparticles in the marine environment: Impact on the toxicity of phenanthrene and Cd ²⁺ to marine zooplankton <i>Artemia salina</i> . <i>Science of the Total Environment</i> , 2018, 615, 375-380.	3.9	45
29	An association network analysis among microeukaryotes and bacterioplankton reveals algal bloom dynamics. <i>Journal of Phycology</i> , 2015, 51, 120-132.	1.0	44
30	Mangrove diversity enhances plant biomass production and carbon storage in Hainan island, China. <i>Functional Ecology</i> , 2021, 35, 774-786.	1.7	40
31	Mechanisms underlying the acute toxicity of fullerene to <i>Daphnia magna</i> : Energy acquisition restriction and oxidative stress. <i>Water Research</i> , 2017, 123, 696-703.	5.3	39
32	Photosynthetic response mechanisms in typical C ₃ and C ₄ plants upon La ₂ O ₃ nanoparticle exposure. <i>Environmental Science: Nano</i> , 2020, 7, 81-92.	2.2	39
33	Comparison of <i>R-metalaxyl</i> and <i>rac-metalaxyl</i> in acute, chronic, and sublethal effect on aquatic organisms: <i>Daphnia magna</i> , <i>Scenedesmus quadricauda</i> , and <i>Danio rerio</i> .	2.1	36
34	The impacts of bisphenol A (BPA) on abalone (<i>Haliotis diversicolor supertexta</i>) embryonic development. <i>Chemosphere</i> , 2011, 82, 443-450.	4.2	35
35	Strain identification and quorum sensing inhibition characterization of marine-derived <i>Rhizobium</i> sp. NAO1. <i>Royal Society Open Science</i> , 2017, 4, 170025.	1.1	33
36	Bioremediation and fodder potentials of two <i>Sargassum</i> spp. in coastal waters of Shenzhen, South China. <i>Marine Pollution Bulletin</i> , 2014, 85, 797-802.	2.3	32

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37	Effects of exotic and native mangrove forests plantation on soil organic carbon, nitrogen, and phosphorus contents and pools in Leizhou, China. <i>Catena</i> , 2019, 180, 1-7.	2.2	30
38	Effects of land use on the heavy metal pollution in mangrove sediments: Study on a whole island scale in Hainan, China. <i>Science of the Total Environment</i> , 2022, 824, 153856.	3.9	29
39	Bioaccumulation and biotransformation of polybrominated diphenyl ethers in the marine bivalve (<i>Scapharca subcrenata</i>): Influence of titanium dioxide nanoparticles. <i>Marine Pollution Bulletin</i> , 2015, 90, 48-53.	2.3	28
40	Graphene oxide in the marine environment: Toxicity to <i>Artemia salina</i> with and without the presence of Phe and Cd ²⁺ . <i>Chemosphere</i> , 2018, 211, 390-396.	4.2	25
41	In vitro oxidative stress, mitochondrial impairment and G1 phase cell cycle arrest induced by alkyl-phosphorus-containing flame retardants. <i>Chemosphere</i> , 2020, 248, 126026.	4.2	25
42	Combined toxicity of nano-TiO ₂ and Cd ²⁺ to <i>Scenedesmus obliquus</i> : Effects at different concentration ratios. <i>Journal of Hazardous Materials</i> , 2021, 418, 126354.	6.5	25
43	Environmental Fate and Toxicity of Sunscreen-Derived Inorganic Ultraviolet Filters in Aquatic Environments: A Review. <i>Nanomaterials</i> , 2022, 12, 699.	1.9	24
44	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.	3.9	24
45	Modeling volatilization and adsorption of disinfection byproducts in natural watersheds. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2990.	2.1	23
46	Exposure of engineered nanoparticles to <i>Alexandrium tamarense</i> (Dinophyceae): Healthy impacts of nanoparticles via toxin-producing dinoflagellate. <i>Science of the Total Environment</i> , 2018, 610-611, 356-366.	3.9	22
47	Ecotoxicological effects of DBPs on freshwater phytoplankton communities in co-culture systems. <i>Journal of Hazardous Materials</i> , 2022, 421, 126679.	6.5	21
48	Effects of manufactured nanomaterials on algae: Implications and applications. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	21
49	Spatial patterns and driving factors of carbon stocks in mangrove forests on Hainan Island, China. <i>Global Ecology and Biogeography</i> , 2022, 31, 1692-1706.	2.7	21
50	TiO ₂ Nanoparticles in the Marine Environment: Enhancing Bioconcentration, While Limiting Biotransformation of Arsenic in the Mussel <i>Perna viridis</i> . <i>Environmental Science & Technology</i> , 2020, 54, 12254-12261.	4.6	20
51	Combined toxicity of polystyrene microplastics and ammonium perfluorooctanoate to <i>Daphnia magna</i> : Mediation of intestinal blockage. <i>Water Research</i> , 2022, 219, 118536.	5.3	20
52	Relationships between above- and below-ground carbon stocks in mangrove forests facilitate better estimation of total mangrove blue carbon. <i>Carbon Balance and Management</i> , 2021, 16, 8.	1.4	19
53	Innate immune parameters and haemolymph protein expression profile to evaluate the immunotoxicity of tributyltin on abalone (<i>Haliotis diversicolor supertexta</i>). <i>Developmental and Comparative Immunology</i> , 2010, 34, 1059-1067.	1.0	18
54	Roles of temperature and flow velocity on the mobility of nano-sized titanium dioxide in natural waters. <i>Science of the Total Environment</i> , 2016, 565, 849-856.	3.9	18

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55	Transformation and species identification of CuO nanoparticles in plant cells (<i>Nicotiana glauca</i>). <i>Environmental Pollution</i> , 2018, 235, 107-115.	2.2	18
56	Tolerance and bioaccumulation of combined copper, zinc, and cadmium in <i>Sesuvium portulacastrum</i> . <i>Marine Pollution Bulletin</i> , 2018, 131, 416-421.	2.3	17
57	Bioavailability and toxicity of silver nanoparticles: Determination based on toxicokinetic-toxicodynamic processes. <i>Water Research</i> , 2021, 204, 117603.	5.3	17
58	Are endocrine disruptors among the causes of the deterioration of aquatic biodiversity?. <i>Integrated Environmental Assessment and Management</i> , 2010, 6, 492-498.	1.6	16
59	Behavioural and chronic toxicity of fullerene to <i>Daphnia magna</i> : Mechanisms revealed by transcriptomic analysis. <i>Environmental Pollution</i> , 2019, 255, 113181.	3.7	16
60	Mitigation effects of CO ₂ -driven ocean acidification on Cd toxicity to the marine diatom <i>Skeletonema costatum</i> . <i>Environmental Pollution</i> , 2020, 259, 113850.	3.7	16
61	Recovery of <i>Alexandrium tamarense</i> under chronic exposure of TiO ₂ nanoparticles and possible mechanisms. <i>Aquatic Toxicology</i> , 2019, 208, 98-108.	1.9	15
62	Combined effects of CO ₂ -driven ocean acidification and Cd stress in the marine environment: Enhanced tolerance of <i>Phaeodactylum tricornutum</i> to Cd exposure. <i>Marine Pollution Bulletin</i> , 2020, 150, 110594.	2.3	15
63	Mechanisms of nC ₆₀ removal by the alum coagulation-flocculation-sedimentation process. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 213-219.	5.0	14
64	Biofilm inhibition and pathogenicity attenuation in bacteria by <i>Proteus mirabilis</i> . <i>Royal Society Open Science</i> , 2018, 5, 170702.	1.1	14
65	Application of Embryonic and Adult Zebrafish for Nanotoxicity Assessment. <i>Methods in Molecular Biology</i> , 2012, 926, 317-329.	0.4	12
66	Alleviative Effects of Cd on the Trophic Transfer of Cadmium along the Food Chain in Aquatic Environment. <i>Environmental Science & Technology</i> , 2019, 53, 8381-8388.	4.6	12
67	TiO ₂ nanoparticles enhanced bioaccumulation and toxic performance of PAHs via trophic transfer. <i>Journal of Hazardous Materials</i> , 2021, 407, 124834.	6.5	12
68	Co-Regulations of <i>Spartina alterniflora</i> Invasion and Exogenous Nitrogen Loading on Soil N ₂ O Efflux in Subtropical Mangrove Mesocosms. <i>PLoS ONE</i> , 2016, 11, e0146199.	1.1	12
69	Optimizing the growth of <i>Haematococcus pluvialis</i> based on a novel microbubble-driven photobioreactor. <i>IScience</i> , 2021, 24, 103461.	1.9	12
70	Cytotoxicity, mitochondrial impairment, DNA damage and associated mechanisms induced by tris(1,3-dichloro-2-propyl) phosphate and tris(2-butoxyethyl) phosphate in A549 cells. <i>Science of the Total Environment</i> , 2021, 787, 147668.	3.9	10
71	Distribution, characteristics, and human exposure to microplastics in mangroves within the Guangdong-Hong Kong-Macao Greater Bay Area. <i>Marine Pollution Bulletin</i> , 2022, 175, 113395.	2.3	10
72	Fluorescence signal transduction mechanism for immunoassay based on zinc ion release from ZnS nanocrystals. <i>Analyst</i> , 2011, 136, 2975.	1.7	8

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73	Influences of DMP on the Fertilization Process and Subsequent Embryogenesis of Abalone (<i>Haliotis</i>) Tj ETQq1 1 0.784314 rgBT /Overlacc	1.1	8
74	A Novel Hydrolytic Activity of Tri-Functional Geranylgeranyl Pyrophosphate Synthase in <i>Haematococcus pluvialis</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 2536-2548.	1.5	7
75	Behavior and effect of manufactured nanomaterials in the marine environment. <i>Integrated Environmental Assessment and Management</i> , 2012, 8, 566-567.	1.6	6
76	Transcriptome and biochemical analyses of rainbow trout (<i>Oncorhynchus mykiss</i>) RTG-2 gonadal cells in response to BDE-47 stress indicates effects on cell proliferation. <i>Aquatic Toxicology</i> , 2022, 245, 106108.	1.9	4
77	Dual signal amplification for bioassays using ion release from nanolabels and ion-activated enzyme kinetics. <i>Analyst</i> , The, 2012, 137, 4815.	1.7	3
78	MicroRNA detection using magnetic separation and zinc-based nanolabels as signal transducers. <i>Analytical Methods</i> , 2013, 5, 801-804.	1.3	3
79	Enhanced Bioaccumulation and Toxicity of Arsenic in Marine Mussel <i>Perna viridis</i> in the Presence of CuO/Fe ₃ O ₄ Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 2769.	1.9	2
80	Editorial: Plastic Pollution in the Bay Areas. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	1
81	Optimizing the Growth of <i>Haematococcus Pluvialis</i> Based on a Novel Microbubble-Driven Photobioreactor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
82	Research progress in toxicity of carbon quantum dots. <i>Scientia Sinica Chimica</i> , 2017, 47, 1170-1178.	0.2	0
83	Research progress in ecotoxicology of climate change coupled with marine pollutions. <i>Chinese Science Bulletin</i> , 2018, 63, 521-534.	0.4	0
84	Ectohydrolytic enzyme activities of bacteria associated with <i>Orbicella annularis</i> coral. <i>Coral Reefs</i> , 2021, 40, 1899.	0.9	0
85	Community Structure of Benthic Macrofauna and the Ecological Quality of Mangrove Wetlands in Hainan, China. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	0