

# Zhuang Wang

## List of Publications by Year in Descending Order

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

74  
papers

1,456  
citations

24  
h-index

35  
g-index

78  
ext. papers

1,786  
ext. citations

5.8  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
74	Effects of natural organic matter on the joint toxicity and accumulation of Cu nanoparticles and ZnO nanoparticles in <i>Daphnia magna</i> . <i>Environmental Pollution</i> , <b>2022</b> , 292, 118413	9.3	1
73	Dissolved organic matter heightens the toxicity of tetrabromobisphenol A to aquatic organisms.. <i>Ecotoxicology</i> , <b>2022</b> , 1	2.9	0
72	Predicting joint toxicity of chemicals by incorporating a weighted descriptor into a mixture model: Cases for binary antibiotics and binary nanoparticles.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 236, 113472	7	1
71	Estimating dynamic population served by wastewater treatment plants using location-based services data. <i>Environmental Geochemistry and Health</i> , <b>2021</b> , 43, 4627-4635	4.7	1
70	Presence of the ketamine analog of 2-fluorodeschloroketamine residues in wastewater. <i>Drug Testing and Analysis</i> , <b>2021</b> , 13, 1650-1657	3.5	3
69	Spatial analysis of metformin use compared with nicotine and caffeine consumption through wastewater-based epidemiology in China. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 208, 111623	7	13
68	Prediction of the Joint Toxicity of Multiple Engineered Nanoparticles: The Integration of Classic Mixture Models and Methods. <i>Chemical Research in Toxicology</i> , <b>2021</b> , 34, 176-178	4	2
67	Probing nano-QSAR to assess the interactions between carbon nanoparticles and a SARS-CoV-2 RNA fragment. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 219, 112357	7	4
66	Effects of humic substances on the aqueous stability of cerium dioxide nanoparticles and their toxicity to aquatic organisms. <i>Science of the Total Environment</i> , <b>2021</b> , 781, 146583	10.2	2
65	Graphene nanoplatelets and reduced graphene oxide elevate the microalgal cytotoxicity of nano-zirconium oxide. <i>Chemosphere</i> , <b>2021</b> , 276, 130015	8.4	5
64	Assessment of metformin, nicotine, caffeine, and methamphetamine use during Chinese public holidays. <i>Chemosphere</i> , <b>2020</b> , 258, 127354	8.4	12
63	Oxidative stress actuated by cellulose nanocrystals and nanofibrils in aquatic organisms of different trophic levels. <i>NanoImpact</i> , <b>2020</b> , 17, 100211	5.6	6
62	The fate and toxicity of Pb-based perovskite nanoparticles on soil bacterial community: Impacts of pH, humic acid, and divalent cations. <i>Chemosphere</i> , <b>2020</b> , 249, 126564	8.4	12
61	Methamphetamine use in typical Chinese cities evaluated by wastewater-based epidemiology. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 8157-8165	5.1	25
60	Comparative Acute Toxicity and Oxidative Stress Responses in Three Aquatic Species Exposed to Stannic Oxide Nanoparticles and Stannic Chloride. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2020</b> , 105, 841-846	2.7	0
59	Combined Toxicity of TiO Nanospherical Particles and TiO Nanotubes to Two Microalgae with Different Morphology. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
58	Aquatic toxicity of iron-oxide-doped microplastics to <i>Chlorella pyrenoidosa</i> and <i>Daphnia magna</i> . <i>Environmental Pollution</i> , <b>2020</b> , 257, 113451	9.3	25

57	Wastewater analysis reveals spatial pattern in consumption of anti-diabetes drug metformin in China. <i>Chemosphere</i> , <b>2019</b> , 222, 688-695	8.4	22
56	Ecotoxicological effects on <i>Scenedesmus obliquus</i> and <i>Danio rerio</i> Co-exposed to polystyrene nano-plastic particles and natural acidic organic polymer. <i>Environmental Toxicology and Pharmacology</i> , <b>2019</b> , 67, 21-28	5.8	32
55	Assessing the trend of diabetes mellitus by analyzing metformin as a biomarker in wastewater. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 281-287	10.2	22
54	Dissolved Organic Matter Modulates Algal Oxidative Stress and Membrane System Responses to Binary Mixtures of Nano-Metal-Oxides (nCeO, nMgO and nFeO) and Sulfadiazine. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	3
53	Aquatic behavior and toxicity of polystyrene nanoplastic particles with different functional groups: Complex roles of pH, dissolved organic carbon and divalent cations. <i>Chemosphere</i> , <b>2019</b> , 228, 195-203	8.4	42
52	Metagenomic analysis of bacterial communities and antibiotic resistance genes in the Eriocheir sinensis freshwater aquaculture environment. <i>Chemosphere</i> , <b>2019</b> , 224, 202-211	8.4	41
51	A DFT/TDDFT study on the mechanisms of direct and indirect photodegradation of tetrabromobisphenol A in water. <i>Chemosphere</i> , <b>2019</b> , 220, 40-46	8.4	1
50	Reduction in methamphetamine consumption trends from 2015 to 2018 detected by wastewater-based epidemiology in Dalian, China. <i>Drug and Alcohol Dependence</i> , <b>2019</b> , 194, 302-309	4.9	17
49	Applying a population model based on hydrochemical parameters in wastewater-based epidemiology. <i>Science of the Total Environment</i> , <b>2019</b> , 657, 466-475	10.2	21
48	Dissolved organic matter and aluminum oxide nanoparticles synergistically cause cellular responses in freshwater microalgae. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2018</b> , 53, 651-658	2.3	10
47	Toxicity of mixtures of zinc oxide and graphene oxide nanoparticles to aquatic organisms of different trophic level: particles outperform dissolved ions. <i>Nanotoxicology</i> , <b>2018</b> , 12, 423-438	5.3	41
46	Aqueous aggregation and stability of graphene nanoplatelets, graphene oxide, and reduced graphene oxide in simulated natural environmental conditions: complex roles of surface and solution chemistry. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 10956-10965	5.1	20
45	Dissipative particle dynamic simulation and experimental assessment of the impacts of humic substances on aqueous aggregation and dispersion of engineered nanoparticles. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 1024-1031	3.8	5
44	TiO <sub>2</sub> /SiO <sub>2</sub> and ZrO <sub>2</sub> Nanoparticles Synergistically Provoke Cellular Oxidative Damage in Freshwater Microalgae. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	24
43	Toxicological assessment of multi-walled carbon nanotubes combined with nonylphenol in male mice. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200238	3.7	8
42	Emerging investigator series: the dynamics of particle size distributions need to be accounted for in bioavailability modelling of nanoparticles. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2473-2481	7.1	14
41	Algal toxicity of binary mixtures of zinc oxide nanoparticles and tetrabromobisphenol A: Roles of dissolved organic matters. <i>Environmental Toxicology and Pharmacology</i> , <b>2018</b> , 64, 78-85	5.8	9
40	DFT/TDDFT insights into effects of dissociation and metal complexation on photochemical behavior of enrofloxacin in water. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 30609-30616	5.1	5

39	Multiscale Coupling Strategy for Nano Ecotoxicology Prediction. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 7598-7600	10.3	6
38	Estimating nicotine consumption in eight cities using sewage epidemiology based on ammonia nitrogen equivalent population. <i>Science of the Total Environment</i> , <b>2017</b> , 590-591, 226-232	10.2	51
37	Combined ecotoxicity of binary zinc oxide and copper oxide nanoparticles to <i>Scenedesmus obliquus</i> . <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2017</b> , 52, 555-560	2.3	28
36	Limited formation of isoprene epoxydiols-derived secondary organic aerosol under NO <sub>x</sub> -rich environments in Eastern China. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2035	4.9	31
35	Elucidating Direct Photolysis Mechanisms of Different Dissociation Species of Norfloxacin in Water and Mg Effects by Quantum Chemical Calculations. <i>Molecules</i> , <b>2017</b> , 22,	4.8	4
34	Field characterization of the PM <sub>2.5</sub> ; Aerosol Chemical Speciation Monitor: insights into the composition, sources and processes of fine particles in Eastern China <b>2017</b> ,		1
33	Assessment and prediction of joint algal toxicity of binary mixtures of graphene and ionic liquids. <i>Chemosphere</i> , <b>2017</b> , 185, 681-689	8.4	21
32	Co-exposure of Freshwater Microalgae to Tetrabromobisphenol A and Sulfadiazine: Oxidative Stress Biomarker Responses and Joint Toxicity Prediction. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2017</b> , 99, 438-444	2.7	12
31	Impacts of dissolved organic matter on aqueous behavior of nano/micron-titanium nitride and their induced enzymatic/non-enzymatic antioxidant activities in <i>Scenedesmus obliquus</i> . <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2017</b> , 52, 23-29	2.3	4
30	Field characterization of the PM <sub>2.5</sub> ; Aerosol Chemical Speciation Monitor: insights into the composition, sources, and processes of fine particles in eastern China. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 14501-14517	6.8	32
29	Regional contribution to PM <sub>1</sub> pollution during winter haze in Yangtze River Delta, China. <i>Science of the Total Environment</i> , <b>2016</b> , 541, 161-166	10.2	47
28	Using Monte Carlo simulation to assess uncertainty and variability of methamphetamine use and prevalence from wastewater analysis. <i>International Journal of Drug Policy</i> , <b>2016</b> , 36, 1-7	5.5	13
27	Using Monte Carlo simulation to assess variability and uncertainty of tobacco consumption in a city by sewage epidemiology. <i>BMJ Open</i> , <b>2016</b> , 6, e010583	3	29
26	Illicit drugs and their metabolites in 36 rivers that drain into the Bohai Sea and north Yellow Sea, north China. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 16495-503	5.1	26
25	Toxicological effects of chlorpyrifos on growth, enzyme activity and chlorophyll a synthesis of freshwater microalgae. <i>Environmental Toxicology and Pharmacology</i> , <b>2016</b> , 45, 179-86	5.8	31
24	Physicochemical properties and ecotoxicological effects of yttrium oxide nanoparticles in aquatic media: Role of low molecular weight natural organic acids. <i>Environmental Pollution</i> , <b>2016</b> , 212, 113-120	9.3	9
23	Soot Nanoparticles Could Partake in Nucleation of Biogenic Particles in the Atmosphere: Using Fullerene as a Model Compound. <i>Atmosphere</i> , <b>2016</b> , 7, 45	2.7	
22	Role of intramolecular hydrogen bonding in the excited-state intramolecular double proton transfer (ESIDPT) of calix[4]arene: A TDDFT study. <i>Open Physics</i> , <b>2016</b> , 14, 602-609	1.3	1

21	Impacts of low-molecular-weight organic acids on aquatic behavior of graphene nanoplatelets and their induced algal toxicity and antioxidant capacity. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 10938-10945	5.1	23
20	Prediction of joint algal toxicity of nano-CeO <sub>2</sub> /nano-TiO <sub>2</sub> and florfenicol: Independent action surpasses concentration addition. <i>Chemosphere</i> , <b>2016</b> , 156, 8-13	8.4	26
19	Benzoic Acid Interactions Affect Aquatic Properties and Toxicity of Copper Oxide Nanoparticles. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2016</b> , 97, 159-65	2.7	3
18	Trophic magnification of chlorinated flame retardants and their dechlorinated analogs in a fresh water food web. <i>Chemosphere</i> , <b>2015</b> , 118, 293-300	8.4	22
17	Chemical composition, sources and evolution processes of aerosol at an urban site in Yangtze River Delta, China during wintertime. <i>Atmospheric Environment</i> , <b>2015</b> , 123, 339-349	5.3	50
16	Elucidating Adsorption Mechanisms of Phthalate Esters upon Carbon Nanotubes/Graphene and Natural Organic Acid Competitive Effects in Water by DFT and MD Calculations. <i>Bulletin of the Korean Chemical Society</i> , <b>2015</b> , 36, 1631-1636	1.2	7
15	Insights into characteristics, sources, and evolution of submicron aerosols during harvest seasons in the Yangtze River delta region, China. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1331-1349	6.8	92
14	Simulating Molecular Interactions of Carbon Nanoparticles with a Double-Stranded DNA Fragment. <i>Journal of Chemistry</i> , <b>2015</b> , 2015, 1-6	2.3	3
13	A Review of the Properties and Processes Determining the Fate of Engineered Nanomaterials in the Aquatic Environment. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2015</b> , 45, 2084-2134	11.1	145
12	Humic substances alleviate the aquatic toxicity of polyvinylpyrrolidone-coated silver nanoparticles to organisms of different trophic levels. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 1239-45	3.8	39
11	A practical approach to determine dose metrics for nanomaterials. <i>Environmental Toxicology and Chemistry</i> , <b>2015</b> , 34, 1015-22	3.8	27
10	Theoretical investigations on C <sub>60</sub> -ionic liquid interactions and their impacts on C <sub>60</sub> dispersion behavior. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 1802-8	3.8	12
9	?????????????????????????????. <i>Chinese Science Bulletin</i> , <b>2014</b> , 59, 1955-1966	2.9	3
8	Impacts of C <sub>60</sub> -Ionic Liquids (ILs) Interactions and IL Alkyl Chain Length on C <sub>60</sub> Dispersion Behavior: Insights at the Molecular Level. <i>Bulletin of the Korean Chemical Society</i> , <b>2014</b> , 35, 2679-2683	1.2	4
7	Molecular dynamics simulations on the interactions of low molecular weight natural organic acids with C <sub>60</sub> . <i>Chemosphere</i> , <b>2013</b> , 92, 429-34	8.4	14
6	Aquatic toxicity of nanosilver colloids to different trophic organisms: contributions of particles and free silver ion. <i>Environmental Toxicology and Chemistry</i> , <b>2012</b> , 31, 2408-13	3.8	78
5	C <sub>60</sub> -DOM interactions and effects on C <sub>60</sub> apparent solubility: a molecular mechanics and density functional theory study. <i>Environment International</i> , <b>2011</b> , 37, 1078-82	12.9	33
4	Photodegradation of fluoroquinolone antibiotic gatifloxacin in aqueous solutions. <i>Science Bulletin</i> , <b>2010</b> , 55, 1495-1500		24

3	Determination and estimation of partitioning properties for substituted phosphates and thiophosphates. <i>Environmental Monitoring and Assessment</i> , <b>2009</b> , 152, 443-50	3.1	
2	Integrated fuzzy concentration addition-independent action (IFCA-IA) model outperforms two-stage prediction (TSP) for predicting mixture toxicity. <i>Chemosphere</i> , <b>2009</b> , 74, 735-40	8.4	25
1	Evolution of toxicity upon hydrolysis of fenoxaprop-p-ethyl. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 7626-9	5.7	29