

Zhuang Wang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/972618/zhuang-wang-publications-by-citations.pdf>

Version: 2024-04-27

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.

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	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> , 2015 , 45, 2084-2134	11.1	145
73	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> , 2015 , 15, 1331-1349	6.8	92
72	Aquatic toxicity of nanosilver colloids to different trophic organisms: contributions of particles and free silver ion. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 2408-13	3.8	78
71	Estimating nicotine consumption in eight cities using sewage epidemiology based on ammonia nitrogen equivalent population. <i>Science of the Total Environment</i> , 2017 , 590-591, 226-232	10.2	51
70	Chemical composition, sources and evolution processes of aerosol at an urban site in Yangtze River Delta, China during wintertime. <i>Atmospheric Environment</i> , 2015 , 123, 339-349	5.3	50
69	Regional contribution to PM ₁ pollution during winter haze in Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2016 , 541, 161-166	10.2	47
68	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> , 2019 , 228, 195-203	8.4	42
67	Metagenomic analysis of bacterial communities and antibiotic resistance genes in the Eriocheir sinensis freshwater aquaculture environment. <i>Chemosphere</i> , 2019 , 224, 202-211	8.4	41
66	Toxicity of mixtures of zinc oxide and graphene oxide nanoparticles to aquatic organisms of different trophic level: particles outperform dissolved ions. <i>Nanotoxicology</i> , 2018 , 12, 423-438	5.3	41
65	Humic substances alleviate the aquatic toxicity of polyvinylpyrrolidone-coated silver nanoparticles to organisms of different trophic levels. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 1239-45	3.8	39
64	C60-DOM interactions and effects on C60 apparent solubility: a molecular mechanics and density functional theory study. <i>Environment International</i> , 2011 , 37, 1078-82	12.9	33
63	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> , 2019 , 67, 21-28	5.8	32
62	Field characterization of the PM _{2.5} ; Aerosol Chemical Speciation Monitor: insights into the composition, sources, and processes of fine particles in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14501-14517	6.8	32
61	Limited formation of isoprene epoxydiols-derived secondary organic aerosol under NO _x -rich environments in Eastern China. <i>Geophysical Research Letters</i> , 2017 , 44, 2035	4.9	31
60	Toxicological effects of chlorpyrifos on growth, enzyme activity and chlorophyll a synthesis of freshwater microalgae. <i>Environmental Toxicology and Pharmacology</i> , 2016 , 45, 179-86	5.8	31
59	Using Monte Carlo simulation to assess variability and uncertainty of tobacco consumption in a city by sewage epidemiology. <i>BMJ Open</i> , 2016 , 6, e010583	3	29
58	Evolution of toxicity upon hydrolysis of fenoxaprop-p-ethyl. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 7626-9	5.7	29

57	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> , 2017 , 52, 555-560	2.3	28
56	A practical approach to determine dose metrics for nanomaterials. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 1015-22	3.8	27
55	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> , 2016 , 23, 16495-503	5.1	26
54	Prediction of joint algal toxicity of nano-CeO ₂ /nano-TiO ₂ and florfenicol: Independent action surpasses concentration addition. <i>Chemosphere</i> , 2016 , 156, 8-13	8.4	26
53	Integrated fuzzy concentration addition-independent action (IFCA-IA) model outperforms two-stage prediction (TSP) for predicting mixture toxicity. <i>Chemosphere</i> , 2009 , 74, 735-40	8.4	25
52	Methamphetamine use in typical Chinese cities evaluated by wastewater-based epidemiology. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 8157-8165	5.1	25
51	Aquatic toxicity of iron-oxide-doped microplastics to <i>Chlorella pyrenoidosa</i> and <i>Daphnia magna</i> . <i>Environmental Pollution</i> , 2020 , 257, 113451	9.3	25
50	TiO ₂ /SiO ₂ and ZrO ₂ Nanoparticles Synergistically Provoke Cellular Oxidative Damage in Freshwater Microalgae. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
49	Photodegradation of fluoroquinolone antibiotic gatifloxacin in aqueous solutions. <i>Science Bulletin</i> , 2010 , 55, 1495-1500		24
48	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> , 2016 , 23, 10938-10945	5.1	23
47	Wastewater analysis reveals spatial pattern in consumption of anti-diabetes drug metformin in China. <i>Chemosphere</i> , 2019 , 222, 688-695	8.4	22
46	Assessing the trend of diabetes mellitus by analyzing metformin as a biomarker in wastewater. <i>Science of the Total Environment</i> , 2019 , 688, 281-287	10.2	22
45	Trophic magnification of chlorinated flame retardants and their dechlorinated analogs in a fresh water food web. <i>Chemosphere</i> , 2015 , 118, 293-300	8.4	22
44	Assessment and prediction of joint algal toxicity of binary mixtures of graphene and ionic liquids. <i>Chemosphere</i> , 2017 , 185, 681-689	8.4	21
43	Applying a population model based on hydrochemical parameters in wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2019 , 657, 466-475	10.2	21
42	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> , 2018 , 25, 10956-10965	5.1	20
41	Reduction in methamphetamine consumption trends from 2015 to 2018 detected by wastewater-based epidemiology in Dalian, China. <i>Drug and Alcohol Dependence</i> , 2019 , 194, 302-309	4.9	17
40	Molecular dynamics simulations on the interactions of low molecular weight natural organic acids with C ₆₀ . <i>Chemosphere</i> , 2013 , 92, 429-34	8.4	14

39	Emerging investigator series: the dynamics of particle size distributions need to be accounted for in bioavailability modelling of nanoparticles. <i>Environmental Science: Nano</i> , 2018 , 5, 2473-2481	7.1	14
38	Using Monte Carlo simulation to assess uncertainty and variability of methamphetamine use and prevalence from wastewater analysis. <i>International Journal of Drug Policy</i> , 2016 , 36, 1-7	5.5	13
37	Spatial analysis of metformin use compared with nicotine and caffeine consumption through wastewater-based epidemiology in China. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111623	7	13
36	Assessment of metformin, nicotine, caffeine, and methamphetamine use during Chinese public holidays. <i>Chemosphere</i> , 2020 , 258, 127354	8.4	12
35	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> , 2017 , 99, 438-444	2.7	12
34	Theoretical investigations on C60 -ionic liquid interactions and their impacts on C60 dispersion behavior. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 1802-8	3.8	12
33	The fate and toxicity of Pb-based perovskite nanoparticles on soil bacterial community: Impacts of pH, humic acid, and divalent cations. <i>Chemosphere</i> , 2020 , 249, 126564	8.4	12
32	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> , 2018 , 53, 651-658	2.3	10
31	Physicochemical properties and ecotoxicological effects of yttrium oxide nanoparticles in aquatic media: Role of low molecular weight natural organic acids. <i>Environmental Pollution</i> , 2016 , 212, 113-120	9.3	9
30	Algal toxicity of binary mixtures of zinc oxide nanoparticles and tetrabromobisphenol A: Roles of dissolved organic matters. <i>Environmental Toxicology and Pharmacology</i> , 2018 , 64, 78-85	5.8	9
29	Toxicological assessment of multi-walled carbon nanotubes combined with nonylphenol in male mice. <i>PLoS ONE</i> , 2018 , 13, e0200238	3.7	8
28	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> , 2015 , 36, 1631-1636	1.2	7
27	Oxidative stress actuated by cellulose nanocrystals and nanofibrils in aquatic organisms of different trophic levels. <i>NanoImpact</i> , 2020 , 17, 100211	5.6	6
26	Multiscale Coupling Strategy for Nano Ecotoxicology Prediction. <i>Environmental Science & Technology</i> , 2018 , 52, 7598-7600	10.3	6
25	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> , 2018 , 37, 1024-1031	3.8	5
24	DFT/TDDFT insights into effects of dissociation and metal complexation on photochemical behavior of enrofloxacin in water. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 30609-30616	5.1	5
23	Graphene nanoplatelets and reduced graphene oxide elevate the microalgal cytotoxicity of nano-zirconium oxide. <i>Chemosphere</i> , 2021 , 276, 130015	8.4	5
22	Elucidating Direct Photolysis Mechanisms of Different Dissociation Species of Norfloxacin in Water and Mg Effects by Quantum Chemical Calculations. <i>Molecules</i> , 2017 , 22,	4.8	4

21	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> , 2017 , 52, 23-29	2.3	4
20	Impacts of C60-Ionic Liquids (ILs) Interactions and IL Alkyl Chain Length on C60Dispersion Behavior: Insights at the Molecular Level. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 2679-2683	1.2	4
19	Probing nano-QSAR to assess the interactions between carbon nanoparticles and a SARS-CoV-2 RNA fragment. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 219, 112357	7	4
18	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> , 2019 , 9,	5.4	3
17	Simulating Molecular Interactions of Carbon Nanoparticles with a Double-Stranded DNA Fragment. <i>Journal of Chemistry</i> , 2015 , 2015, 1-6	2.3	3
16	?????????????????????????????. <i>Chinese Science Bulletin</i> , 2014 , 59, 1955-1966	2.9	3
15	Presence of the ketamine analog of 2-fluorodeschloroketamine residues in wastewater. <i>Drug Testing and Analysis</i> , 2021 , 13, 1650-1657	3.5	3
14	Benzoic Acid Interactions Affect Aquatic Properties and Toxicity of Copper Oxide Nanoparticles. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016 , 97, 159-65	2.7	3
13	Prediction of the Joint Toxicity of Multiple Engineered Nanoparticles: The Integration of Classic Mixture Models and Methods. <i>Chemical Research in Toxicology</i> , 2021 , 34, 176-178	4	2
12	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> , 2021 , 781, 146583	10.2	2
11	Field characterization of the PM _{2.5} ; Aerosol Chemical Speciation Monitor: insights into the composition, sources and processes of fine particles in Eastern China 2017 ,		1
10	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> , 2022 , 292, 118413	9.3	1
9	Combined Toxicity of TiO Nanospherical Particles and TiO Nanotubes to Two Microalgae with Different Morphology. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
8	Estimating dynamic population served by wastewater treatment plants using location-based services data. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 4627-4635	4.7	1
7	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> , 2016 , 14, 602-609	1.3	1
6	A DFT/TDDFT study on the mechanisms of direct and indirect photodegradation of tetrabromobisphenol A in water. <i>Chemosphere</i> , 2019 , 220, 40-46	8.4	1
5	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> , 2022 , 236, 113472	7	1
4	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> , 2020 , 105, 841-846	2.7	0

- 3 Dissolved organic matter heightens the toxicity of tetrabromobisphenol A to aquatic organisms.. *Ecotoxicology*, **2022**, 1 2.9 0
- 2 Determination and estimation of partitioning properties for substituted phosphates and thiophosphates. *Environmental Monitoring and Assessment*, **2009**, 152, 443-50 3.1
- 1 Soot Nanoparticles Could Partake in Nucleation of Biogenic Particles in the Atmosphere: Using Fullerene as a Model Compound. *Atmosphere*, **2016**, 7, 45 2.7