

# Xiao-Xia Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,388  
citations

331670

21  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1326  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosafety-inspired structural optimization of triazolium ionic liquids based on structure-toxicity relationships. <i>Journal of Hazardous Materials</i> , 2022, 424, 127521.	12.4	9
2	Simple Extraction and Ultrasensitive Determination of Nanoscale Silver from Environmental Waters. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1863-1870.	6.7	8
3	Distribution, bioaccumulation, and trophic transfer of palladium-doped nanoplastics in a constructed freshwater ecosystem. <i>Environmental Science: Nano</i> , 2022, 9, 1353-1363.	4.3	5
4	Identification of polystyrene nanoplastics using surface enhanced Raman spectroscopy. <i>Talanta</i> , 2021, 221, 121552.	5.5	97
5	Quantitative Analysis of Polystyrene and Poly(methyl methacrylate) Nanoplastics in Tissues of Aquatic Animals. <i>Environmental Science &amp; Technology</i> , 2021, 55, 3032-3040.	10.0	59
6	Sequential Isolation of Microplastics and Nanoplastics in Environmental Waters by Membrane Filtration, Followed by Cloud-Point Extraction. <i>Analytical Chemistry</i> , 2021, 93, 4559-4566.	6.5	63
7	Al <sup>3+</sup> reduces PM <sub>2.5</sub> -induced cytotoxicity in human bronchial epithelial cells via reducing ROS production. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 903-909.	3.3	1
8	Reduction of Ionic Silver by Sulfur Dioxide as a Source of Silver Nanoparticles in the Environment. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5569-5578.	10.0	17
9	Protein Corona-Mediated Extraction for Quantitative Analysis of Nanoplastics in Environmental Waters by Pyrolysis Gas Chromatography/Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 6698-6705.	6.5	60
10	Quantification of Nanoplastic Uptake in Cucumber Plants by Pyrolysis Gas Chromatography/Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2021, 8, 633-638.	8.7	87
11	Toxic effects of acute exposure to polystyrene microplastics and nanoplastics on the model insect, silkworm <i>Bombyx mori</i> . <i>Environmental Pollution</i> , 2021, 285, 117255.	7.5	49
12	Fe@C activated peroxymonosulfate system for effectively degrading emerging contaminants: Analysis of the formation and activation mechanism of Fe coordinately unsaturated metal sites. <i>Journal of Hazardous Materials</i> , 2021, 419, 126535.	12.4	33
13	Targeted accumulation and spatial confinement effect of Fe(II)-MOFs@MIP for efficiently removing low concentration dibutyl phthalate. <i>Chemical Engineering Journal</i> , 2021, 424, 130367.	12.7	25
14	Effects of chemical and natural ageing on the release of potentially toxic metal additives in commercial PVC microplastics. <i>Chemosphere</i> , 2021, 283, 131274.	8.2	66
15	Electrostatic attraction of cationic pollutants by microplastics reduces their joint cytotoxicity. <i>Chemosphere</i> , 2021, 282, 131121.	8.2	9
16	Polyvinylidene fluoride micropore membrane for removal of the released nanoparticles during the application of nanoparticle-loaded water treatment materials. <i>Journal of Cleaner Production</i> , 2020, 261, 121246.	9.3	14
17	Speciation Analysis of Ag <sub>2</sub> S and ZnS Nanoparticles at the ng/L Level in Environmental Waters by Cloud Point Extraction Coupled with LC-ICPMS. <i>Analytical Chemistry</i> , 2020, 92, 4765-4770.	6.5	21
18	Release of ZrO <sub>2</sub> nanoparticles from ZrO <sub>2</sub> /Polymer nanocomposite in wastewater treatment processes. <i>Journal of Environmental Sciences</i> , 2020, 91, 85-91.	6.1	10

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19	Magnetic metal-organic frameworks nanocomposites for negligible-depletion solid-phase extraction of freely dissolved polyaromatic hydrocarbons. <i>Environmental Pollution</i> , 2019, 252, 1574-1581.	7.5	24
20	Cloud-Point Extraction Combined with Thermal Degradation for Nanoplastic Analysis Using Pyrolysis Gas Chromatography–Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 1785-1790.	6.5	138
21	Simultaneous size characterization and mass quantification of the in vivo core-biocrystalline structure and dissolved species of silver nanoparticles. <i>Journal of Environmental Sciences</i> , 2018, 63, 227-235.	6.1	24
22	Elemental Mass Size Distribution for Characterization, Quantification and Identification of Trace Nanoparticles in Serum and Environmental Waters. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3892-3901.	10.0	65
23	Highly Efficient Removal of Silver-Containing Nanoparticles in Waters by Aged Iron Oxide Magnetic Particles. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5468-5476.	6.7	27
24	Catalytic role of iron in the formation of silver nanoparticles in photo-irradiated Ag + -dissolved organic matter solution. <i>Environmental Pollution</i> , 2017, 225, 66-73.	7.5	18
25	Development of reusable magnetic chitosan microspheres adsorbent for selective extraction of trace level silver nanoparticles in environmental waters prior to ICP-MS analysis. <i>Talanta</i> , 2017, 169, 91-97.	5.5	39
26	Polyvinylidene Fluoride Micropore Membranes as Solid-Phase Extraction Disk for Preconcentration of Nanoparticulate Silver in Environmental Waters. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13816-13824.	10.0	23
27	Speciation analysis of silver sulfide nanoparticles in environmental waters by magnetic solid-phase extraction coupled with ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2285-2292.	3.0	23
28	Transformation kinetics of silver nanoparticles and silver ions in aquatic environments revealed by double stable isotope labeling. <i>Environmental Science: Nano</i> , 2016, 3, 883-893.	4.3	48
29	Controlled Assembly of Gold Nanostructures on a Solid Substrate via Imidazole Directed Hydrogen Bonding for High Performance Surface Enhanced Raman Scattering Sensing of Hypochlorous Acid. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16730-16737.	8.0	19
30	Water chemistry controlled aggregation and photo-transformation of silver nanoparticles in environmental waters. <i>Journal of Environmental Sciences</i> , 2015, 34, 116-125.	6.1	59
31	Exposure Medium: Key in Identifying Free Ag <sup>+</sup> as the Exclusive Species of Silver Nanoparticles with Acute Toxicity to <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2015, 5, 9674.	3.3	49
32	Speciation Analysis of Labile and Total Silver(I) in Nanosilver Dispersions and Environmental Waters by Hollow Fiber Supported Liquid Membrane Extraction. <i>Environmental Science &amp; Technology</i> , 2015, 49, 14213-14220.	10.0	11
33	Rapid Chromatographic Separation of Dissolvable Ag(I) and Silver-Containing Nanoparticles of 1–100 Nanometer in Antibacterial Products and Environmental Waters. <i>Environmental Science &amp; Technology</i> , 2014, 48, 14516-14524.	10.0	105
34	Photoreduction and Stabilization Capability of Molecular Weight Fractionated Natural Organic Matter in Transformation of Silver Ion to Metallic Nanoparticle. <i>Environmental Science &amp; Technology</i> , 2014, 48, 9366-9373.	10.0	83