Xiao-Xia Zhou

List of Publications by Year
in descending order

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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	Cloud-Point Extraction Combined with Thermal Degradation for Nanoplastic Analysis Using Pyrolysis Gas Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2019, 91, 1785-1790.	6.5	138
2	Rapid Chromatographic Separation of Dissoluble Ag(I) and Silver-Containing Nanoparticles of 1â€“100 Nanometer in Antibacterial Products and Environmental Waters. Environmental Science & Technology, 2014, 48, 14516-14524.	10.0	105
3	Identification of polystyrene nanoplastics using surface enhanced Raman spectroscopy. Talanta, 2021, 221, 121552.	5.5	97
4	Quantification of Nanoplastic Uptake in Cucumber Plants by Pyrolysis Gas Chromatography/Mass Spectrometry. Environmental Science and Technology Letters, 2021, 8, 633-638.	8.7	87
5	Photoreduction and Stabilization Capability of Molecular Weight Fractionated Natural Organic Matter in Transformation of Silver Ion to Metallic Nanoparticle. Environmental Science & Technology, 2014, 48, 9366-9373.	10.0	83
6	Effects of chemical and natural ageing on the release of potentially toxic metal additives in commercial PVC microplastics. Chemosphere, 2021, 283, 131274.	8.2	66
7	Elemental Mass Size Distribution for Characterization, Quantification and Identification of Trace Nanoparticles in Serum and Environmental Waters. Environmental Science & Technology, 2017, 51, 3892-3901.	10.0	65
8	Sequential Isolation of Microplastics and Nanoplastics in Environmental Waters by Membrane Filtration, Followed by Cloud-Point Extraction. Analytical Chemistry, 2021, 93, 4559-4566.	6.5	63
9	Protein Corona-Mediated Extraction for Quantitative Analysis of Nanoplastics in Environmental Waters by Pyrolysis Gas Chromatography/Mass Spectrometry. Analytical Chemistry, 2021, 93, 6698-6705.	6.5	60
10	Water chemistry controlled aggregation and photo-transformation of silver nanoparticles in environmental waters. Journal of Environmental Sciences, 2015, 34, 116-125.	6.1	59
11	Quantitative Analysis of Polystyrene and Poly(methyl methacrylate) Nanoplastics in Tissues of Aquatic Animals. Environmental Science & Technology, 2021, 55, 3032-3040.	10.0	59
12	Exposure Medium: Key in Identifying Free Ag+ as the Exclusive Species of Silver Nanoparticles with Acute Toxicity to Daphnia magna. Scientific Reports, 2015, 5, 9674.	3.3	49
13	Toxic effects of acute exposure to polystyrene microplastics and nanoplastics on the model insect, silkworm Bombyx mori. Environmental Pollution, 2021, 285, 117255.	7.5	49
14	Transformation kinetics of silver nanoparticles and silver ions in aquatic environments revealed by double stable isotope labeling. Environmental Science: Nano, 2016, 3, 883-893.	4.3	48
15	Development of reusable magnetic chitosan microspheres adsorbent for selective extraction of trace level silver nanoparticles in environmental waters prior to ICP-MS analysis. Talanta, 2017, 169, 91-97.	5.5	39
16	Fe@C activated peroxymonosulfate system for effectively degrading emerging contaminants: Analysis of the formation and activation mechanism of Fe coordinately unsaturated metal sites. Journal of Hazardous Materials, 2021, 419, 126535.	12.4	33
17	Highly Efficient Removal of Silver-Containing Nanoparticles in Waters by Aged Iron Oxide Magnetic Particles. ACS Sustainable Chemistry and Engineering, 2017, 5, 5468-5476.	6.7	27
18	Targeted accumulation and spatial confinement effect of Fe(II)-MOFs@MIP for efficiently removing low concentration dibutyl phthalate. Chemical Engineering Journal, 2021, 424, 130367.	12.7	25

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19	Simultaneous size characterization and mass quantification of the in vivo core-biocorona structure and dissolved species of silver nanoparticles. Journal of Environmental Sciences, 2018, 63, 227-235.	6.1	24
20	Magnetic metal-organic frameworks nanocomposites for negligible-depletion solid-phase extraction of freely dissolved polyaromatic hydrocarbons. Environmental Pollution, 2019, 252, 1574-1581.	7.5	24
21	Speciation analysis of silver sulfide nanoparticles in environmental waters by magnetic solid-phase extraction coupled with ICP-MS. Journal of Analytical Atomic Spectrometry, 2016, 31, 2285-2292.	3.0	23
22	Polyvinylidene Fluoride Micropore Membranes as Solid-Phase Extraction Disk for Preconcentration of Nanoparticulate Silver in Environmental Waters. Environmental Science & Technology, 2017, 51, 13816-13824.	10.0	23
23	Speciation Analysis of Ag₂S and ZnS Nanoparticles at the ng/L Level in Environmental Waters by Cloud Point Extraction Coupled with LC-ICPMS. Analytical Chemistry, 2020, 92, 4765-4770.	6.5	21
24	Controlled Assembly of Gold Nanostructures on a Solid Substrate via Imidazole Directed Hydrogen Bonding for High Performance Surface Enhance Raman Scattering Sensing of Hypochlorous Acid. ACS Applied Materials & Interfaces, 2015, 7, 16730-16737.	8.0	19
25	Catalytic role of iron in the formation of silver nanoparticles in photo-irradiated Ag + -dissolved organic matter solution. Environmental Pollution, 2017, 225, 66-73.	7.5	18
26	Reduction of Ionic Silver by Sulfur Dioxide as a Source of Silver Nanoparticles in the Environment. Environmental Science & Technology, 2021, 55, 5569-5578.	10.0	17
27	Polyvinylidene fluoride micropore membrane for removal of the released nanoparticles during the application of nanoparticle-loaded water treatment materials. Journal of Cleaner Production, 2020, 261, 121246.	9.3	14
28	Speciation Analysis of Labile and Total Silver(I) in Nanosilver Dispersions and Environmental Waters by Hollow Fiber Supported Liquid Membrane Extraction. Environmental Science & Technology, 2015, 49, 14213-14220.	10.0	11
29	Release of ZrO2 nanoparticles from ZrO2/Polymer nanocomposite in wastewater treatment processes. Journal of Environmental Sciences, 2020, 91, 85-91.	6.1	10
30	Electrostatic attraction of cationic pollutants by microplastics reduces their joint cytotoxicity. Chemosphere, 2021, 282, 131121.	8.2	9
31	Biosafety-inspired structural optimization of triazolium ionic liquids based on structure-toxicity relationships. Journal of Hazardous Materials, 2022, 424, 127521.	12.4	9
32	Simple Extraction and Ultrasensitive Determination of Nanoscale Silver from Environmental Waters. ACS Sustainable Chemistry and Engineering, 2022, 10, 1863-1870.	6.7	8
33	Distribution, bioaccumulation, and trophic transfer of palladium-doped nanoplastics in a constructed freshwater ecosystem. Environmental Science: Nano, 2022, 9, 1353-1363.	4.3	5
34	Al3+ reduces PM2.5-induced cytotoxicity in human bronchial epithelial cells via reducing ROS production. Air Quality, Atmosphere and Health, 2021, 14, 903-909.	3.3	1