

Tong Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,603
citations

236925

25
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

3188
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms Regulating Mercury Bioavailability for Methylating Microorganisms in the Aquatic Environment: A Critical Review. <i>Environmental Science & Technology</i> , 2013, 47, 2441-2456.	10.0	539
2	Aging Significantly Affects Mobility and Contaminant-Mobilizing Ability of Nanoplastics in Saturated Loamy Sand. <i>Environmental Science & Technology</i> , 2019, 53, 5805-5815.	10.0	258
3	Widespread Production of Extracellular Superoxide by Heterotrophic Bacteria. <i>Science</i> , 2013, 340, 1223-1226.	12.6	236
4	Methylation of Mercury by Bacteria Exposed to Dissolved, Nanoparticulate, and Microparticulate Mercuric Sulfides. <i>Environmental Science & Technology</i> , 2012, 46, 6950-6958.	10.0	208
5	Photolytic degradation of methylmercury enhanced by binding to natural organic ligands. <i>Nature Geoscience</i> , 2010, 3, 473-476.	12.9	171
6	Net Methylation of Mercury in Estuarine Sediment Microcosms Amended with Dissolved, Nanoparticulate, and Microparticulate Mercuric Sulfides. <i>Environmental Science & Technology</i> , 2014, 48, 9133-9141.	10.0	97
7	Incorporating bioaccessibility into health risk assessment of heavy metals in particulate matter originated from different sources of atmospheric pollution. <i>Environmental Pollution</i> , 2019, 254, 113113.	7.5	81
8	Removal of arsenic from water using multifunctional micro-/nano-structured MnO ₂ spheres and microfiltration. <i>Chemical Engineering Journal</i> , 2013, 225, 271-279.	12.7	74
9	Understanding mercury methylation in the changing environment: Recent advances in assessing microbial methylators and mercury bioavailability. <i>Science of the Total Environment</i> , 2020, 714, 136827.	8.0	69
10	Precipitation of nanoscale mercuric sulfides in the presence of natural organic matter: Structural properties, aggregation, and biotransformation. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 204-215.	3.9	67
11	<i>In situ</i> remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019, 6, 1283-1302.	4.3	65
12	Facet-Dependent Adsorption and Fractionation of Natural Organic Matter on Crystalline Metal Oxide Nanoparticles. <i>Environmental Science & Technology</i> , 2020, 54, 8622-8631.	10.0	54
13	Prokaryotic viruses impact functional microorganisms in nutrient removal and carbon cycle in wastewater treatment plants. <i>Nature Communications</i> , 2021, 12, 5398.	12.8	49
14	Mercury biogeochemical cycling: A synthesis of recent scientific advances. <i>Science of the Total Environment</i> , 2020, 737, 139619.	8.0	48
15	Methylmercury produced in upper oceans accumulates in deep Mariana Trench fauna. <i>Nature Communications</i> , 2020, 11, 3389.	12.8	46
16	Enhanced Hydrolysis of <i>p</i> -Nitrophenyl Phosphate by Iron (Hydr)oxide Nanoparticles: Roles of Exposed Facets. <i>Environmental Science & Technology</i> , 2020, 54, 8658-8667.	10.0	42
17	Sulfide induces physical damages and chemical transformation of microplastics via radical oxidation and sulfide addition. <i>Water Research</i> , 2021, 197, 117100.	11.3	40
18	Aggregation morphology is a key factor determining protein adsorption on graphene oxide and reduced graphene oxide nanomaterials. <i>Environmental Science: Nano</i> , 2019, 6, 1303-1309.	4.3	38

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19	Bioaccumulation kinetics and tissue distribution of silver nanoparticles in zebrafish: The mechanisms and influence of natural organic matter. <i>Ecotoxicology and Environmental Safety</i> , 2020, 194, 110454.	6.0	36
20	Microbial methylation potential of mercury sulfide particles dictated by surface structure. <i>Nature Geoscience</i> , 2021, 14, 409-416.	12.9	36
21	Influence of light wavelength on the photoactivity, physicochemical transformation, and fate of graphene oxide in aqueous media. <i>Environmental Science: Nano</i> , 2018, 5, 2590-2603.	4.3	34
22	Occurrence and trophic transfer of nanoparticulate Ag and Ti in the natural aquatic food web of Taihu Lake, China. <i>Environmental Science: Nano</i> , 2019, 6, 3431-3441.	4.3	34
23	Nanocrystal facet modulation to enhance transferrin binding and cellular delivery. <i>Nature Communications</i> , 2020, 11, 1262.	12.8	33
24	Effects of Extracellular Polymeric Substances on the Formation and Methylation of Mercury Sulfide Nanoparticles. <i>Environmental Science & Technology</i> , 2020, 54, 8061-8071.	10.0	28
25	Effects of ozone and produced hydroxyl radicals on the transformation of graphene oxide in aqueous media. <i>Environmental Science: Nano</i> , 2019, 6, 2484-2494.	4.3	27
26	The underappreciated role of natural organic matter bound Hg(II) and nanoparticulate HgS as substrates for methylation in paddy soils across a Hg concentration gradient. <i>Environmental Pollution</i> , 2022, 292, 118321.	7.5	21
27	Sulfidation of Ag and ZnO Nanomaterials Significantly Affects Protein Corona Composition: Implications for Human Exposure to Environmentally Aged Nanomaterials. <i>Environmental Science & Technology</i> , 2019, 53, 14296-14307.	10.0	20
28	Effects of ion species on the disinfection byproduct formation in artificial and real water. <i>Chemosphere</i> , 2019, 217, 706-714.	8.2	19
29	Current Methods and Prospects for Analysis and Characterization of Nanomaterials in the Environment. <i>Environmental Science & Technology</i> , 2022, 56, 7426-7447.	10.0	19
30	Application of Iron-Based Materials for Remediation of Mercury in Water and Soil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 102, 721-729.	2.7	18
31	Fc β RIIB receptor-mediated apoptosis in macrophages through interplay of cadmium sulfide nanomaterials and protein corona. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 140-148.	6.0	15
32	Nano-TiO ₂ -Catalyzed Dehydrochlorination of 1,1,2,2-Tetrachloroethane: Roles of Crystalline Phase and Exposed Facets. <i>Environmental Science & Technology</i> , 2018, 52, 4031-4039.	10.0	14
33	Insights into the lower trophic transfer of silver ions than silver containing nanoparticles along an aquatic food chain. <i>Science of the Total Environment</i> , 2022, 804, 150228.	8.0	14
34	Photolysis of graphene oxide in the presence of nitrate: implications for graphene oxide integrity in water and wastewater treatment. <i>Environmental Science: Nano</i> , 2019, 6, 136-145.	4.3	11
35	Legacy source of mercury in an urban stream—“wetland ecosystem in central North Carolina, USA. <i>Chemosphere</i> , 2015, 138, 960-965.	8.2	9
36	Sulfide and ferrous iron preferentially target specific surface O-functional groups of graphene oxide: implications for accumulation of contaminants. <i>Environmental Science: Nano</i> , 2020, 7, 462-471.	4.3	7

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37	Nanostructured manganese oxides exhibit facet-dependent oxidation capabilities. <i>Environmental Science: Nano</i> , 2020, 7, 3840-3848.	4.3	7
38	Natural organic matter facilitates formation and microbial methylation of mercury selenide nanoparticles. <i>Environmental Science: Nano</i> , 2021, 8, 67-75.	4.3	7
39	Targeting specific cell organelles with different-faceted nanocrystals that are selectively recognized by organelle-targeting peptides. <i>Chemical Communications</i> , 2020, 56, 7613-7616.	4.1	6
40	Substoichiometric titanium oxide Ti ₂ O ₃ exhibits greater efficiency in enhancing hydrolysis of 1,1,2,2-tetrachloroethane than TiO ₂ nanomaterials. <i>Science of the Total Environment</i> , 2021, 774, 145705.	8.0	6