

# Si-Yu Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/814144/publications.pdf>

Version: 2024-02-01

44  
papers

2,786  
citations

236925  
25  
h-index

223800  
46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3712  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continental-scale pollution of estuaries with antibiotic resistance genes. <i>Nature Microbiology</i> , 2017, 2, 16270.	13.3	812
2	Diversity and Abundance of Arsenic Biotransformation Genes in Paddy Soils from Southern China. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4138-4146.	10.0	195
3	Recovery of Lithium from Wastewater Using Development of Li Ion-Imprinted Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 460-467.	6.7	133
4	Metagenomic analysis revealed highly diverse microbial arsenic metabolism genes in paddy soils with low-arsenic contents. <i>Environmental Pollution</i> , 2016, 211, 1-8.	7.5	125
5	Size Effect on the Cytotoxicity of Layered Black Phosphorus and Underlying Mechanisms. <i>Small</i> , 2017, 13, 1701210.	10.0	124
6	New insights into the aquatic photochemistry of fluoroquinolone antibiotics: Direct photodegradation, hydroxyl-radical oxidation, and antibacterial activity changes. <i>Science of the Total Environment</i> , 2015, 527-528, 12-17.	8.0	101
7	The Great Oxidation Event expanded the genetic repertoire of arsenic metabolism and cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10414-10421.	7.1	96
8	Biomethylation and volatilization of arsenic by the marine microalgae <i>Ostreococcus tauri</i> . <i>Chemosphere</i> , 2013, 93, 47-53.	8.2	85
9	Bacterial toxicity of exfoliated black phosphorus nanosheets. <i>Ecotoxicology and Environmental Safety</i> , 2018, 161, 507-514.	6.0	81
10	Selective and Fast Adsorption of Perfluorooctanesulfonate from Wastewater by Magnetic Fluorinated Vermiculite. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8027-8035.	10.0	76
11	Cation- $\pi$ Interaction: A Key Force for Sorption of Fluoroquinolone Antibiotics on Pyrogenic Carbonaceous Materials. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13659-13667.	10.0	69
12	Cyanobacteria-Mediated Arsenic Redox Dynamics Is Regulated by Phosphate in Aquatic Environments. <i>Environmental Science &amp; Technology</i> , 2014, 48, 994-1000.	10.0	68
13	Microbial mediated arsenic biotransformation in wetlands. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	67
14	Selective and High Sorption of Perfluorooctanesulfonate and Perfluorooctanoate by Fluorinated Alkyl Chain Modified Montmorillonite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16782-16790.	3.1	63
15	Recurrent horizontal transfer of arsenite methyltransferase genes facilitated adaptation of life to arsenic. <i>Scientific Reports</i> , 2017, 7, 7741.	3.3	60
16	Ozonation of indomethacin: Kinetics, mechanisms and toxicity. <i>Journal of Hazardous Materials</i> , 2017, 323, 460-470.	12.4	59
17	Modeling photodegradation kinetics of organic micropollutants in water bodies: A case of the Yellow River estuary. <i>Journal of Hazardous Materials</i> , 2018, 349, 60-67.	12.4	54
18	Evaluating the performance of gravity-driven membrane filtration as desalination pretreatment of shale gas flowback and produced water. <i>Journal of Membrane Science</i> , 2019, 587, 117187.	8.2	48

#	ARTICLE	IF	CITATIONS
19	Land scale biogeography of arsenic biotransformation genes in estuarine wetland. <i>Environmental Microbiology</i> , 2017, 19, 2468-2482.	3.8	45
20	Rational Design of Nanogels for Overcoming the Biological Barriers in Various Administration Routes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14760-14778.	13.8	44
21	Survival in amoeba—a major selection pressure on the presence of bacterial copper and zinc resistance determinants? Identification of a copper pathogenicity island. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5817-5824.	3.6	42
22	Intensive allochthonous inputs along the Ganges River and their effect on microbial community composition and dynamics. <i>Environmental Microbiology</i> , 2019, 21, 182-196.	3.8	40
23	Photochemistry of dissolved organic matter extracted from coastal seawater: Excited triplet-states and contents of phenolic moieties. <i>Water Research</i> , 2021, 188, 116568.	11.3	40
24	A flexible and salt-rejecting electrospun film-based solar evaporator for economic, stable and efficient solar desalination and wastewater treatment. <i>Chemosphere</i> , 2021, 267, 128916.	8.2	38
25	Wrinkle-induced high sorption makes few-layered black phosphorus a superior adsorbent for ionic organic compounds. <i>Environmental Science: Nano</i> , 2018, 5, 1454-1465.	4.3	30
26	Genome sequences of copper resistant and sensitive <i>Enterococcus faecalis</i> strains isolated from copper-fed pigs in Denmark. <i>Standards in Genomic Sciences</i> , 2015, 10, 35.	1.5	25
27	Elucidating ozonation mechanisms of organic micropollutants based on DFT calculations: Taking sulfamethoxazole as a case. <i>Environmental Pollution</i> , 2017, 220, 971-980.	7.5	23
28	Advances and challenges of broadband solar absorbers for efficient solar steam generation. <i>Environmental Science: Nano</i> , 2022, 9, 2264-2296.	4.3	20
29	Filtration-based water treatment system embedded with black phosphorus for NIR-triggered disinfection. <i>Environmental Science: Nano</i> , 2019, 6, 2977-2985.	4.3	15
30	Facile passivation of black phosphorus nanosheets via silica coating for stable and efficient solar desalination. <i>Environmental Science: Nano</i> , 2020, 7, 414-423.	4.3	15
31	Unveiling self-sensitized photodegradation pathways by DFT calculations: A case of sunscreen p-aminobenzoic acid. <i>Chemosphere</i> , 2016, 163, 227-233.	8.2	14
32	Oxidation process of lead sulfide nanoparticle in the atmosphere or natural water and influence on toxicity toward <i>Chlorella vulgaris</i> . <i>Journal of Hazardous Materials</i> , 2021, 417, 126016.	12.4	12
33	Opposite pH-dependent roles of hydroxyl radicals in ozonation and UV photolysis of genistein. <i>Science of the Total Environment</i> , 2020, 709, 136243.	8.0	10
34	pH-Dependent Degradation of Layered Black Phosphorus: Essential Role of Hydroxide Ions. <i>Angewandte Chemie</i> , 2018, 131, 477.	2.0	9
35	High Arsenic Levels Increase Activity Rather than Diversity or Abundance of Arsenic Metabolism Genes in Paddy Soils. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0138321.	3.1	9
36	Cation-Induced Exfoliation of Graphite by a Zwitterionic Polymeric Dispersant for Congo Red Adsorption. <i>ACS Applied Nano Materials</i> , 2018, 1, 3878-3885.	5.0	8

#	ARTICLE	IF	CITATIONS
37	Thermo-responsive polymer‐black phosphorus nanocomposites for NIR-triggered bacterial capture and elimination. Environmental Science: Nano, 2022, 9, 1330-1340.	4.3	4
38	Simulating and Predicting Adsorption of Organic Pollutants onto Black Phosphorus Nanomaterials. Nanomaterials, 2022, 12, 590.	4.1	4
39	Turning Waste into Wealth: Remotely NIR Light‐Controlled Precious Metal Recovery by Covalently Functionalized Black Phosphorus. ChemSusChem, 2021, 14, 2698-2703.	6.8	3
40	Environmental stability and cytotoxicity of layered black phosphorus modified with Polyvinylpyrrolidone and Zeolitic Imidazolate Framework-67. Science of the Total Environment, 2021, 790, 148105.	8.0	3
41	Interactions of polymeric drug carriers with DDT reduce their combined cytotoxicity. Environmental Pollution, 2018, 241, 701-709.	7.5	2
42	Hydroxyl radical oxidation of cyclic methylsiloxanes D4 & D6 in aqueous phase. Chemosphere, 2020, 242, 125200.	8.2	2
43	Response of soil enzyme activity and bacterial community to black phosphorus nanosheets. Environmental Science: Nano, 2020, 7, 404-413.	4.3	2
44	ROCKer Models for Reliable Detection and Typing of Short-Read Sequences Carrying Î²-Lactamase Genes. MSystems, 2022, 7, .	3.8	1