

Dong-Mei Zhou

List of Publications by Year in descending order

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118
papers

8,350
citations

66234

42
h-index

46693

89
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118
all docs

118
docs citations

118
times ranked

6119
citing authors

#	ARTICLE	IF	CITATIONS
1	Manipulation of Persistent Free Radicals in Biochar To Activate Persulfate for Contaminant Degradation. <i>Environmental Science & Technology</i> , 2015, 49, 5645-5653.	4.6	684
2	Activation of Persulfate by Quinones: Free Radical Reactions and Implication for the Degradation of PCBs. <i>Environmental Science & Technology</i> , 2013, 47, 4605-4611.	4.6	673
3	Key Role of Persistent Free Radicals in Hydrogen Peroxide Activation by Biochar: Implications to Organic Contaminant Degradation. <i>Environmental Science & Technology</i> , 2014, 48, 1902-1910.	4.6	589
4	Superoxide radical driving the activation of persulfate by magnetite nanoparticles: Implications for the degradation of PCBs. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 325-332.	10.8	420
5	Sulfate radical-based degradation of polychlorinated biphenyls: Effects of chloride ion and reaction kinetics. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 394-401.	6.5	356
6	Mechanistic understanding of polychlorinated biphenyls degradation by peroxymonosulfate activated with CuFe ₂ O ₄ nanoparticles: Key role of superoxide radicals. <i>Chemical Engineering Journal</i> , 2018, 348, 526-534.	6.6	291
7	Mechanism of hydroxyl radical generation from biochar suspensions: Implications to diethyl phthalate degradation. <i>Bioresource Technology</i> , 2015, 176, 210-217.	4.8	284
8	POLSOIL: research on soil pollution in China. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1-3.	2.7	260
9	New insight into the mechanism of peroxymonosulfate activation by sulfur-containing minerals: Role of sulfur conversion in sulfate radical generation. <i>Water Research</i> , 2018, 142, 208-216.	5.3	254
10	Photogeneration of reactive oxygen species from biochar suspension for diethyl phthalate degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 214, 34-45.	10.8	247
11	Efficient transformation of DDTs with Persulfate Activation by Zero-valent Iron Nanoparticles: A Mechanistic Study. <i>Journal of Hazardous Materials</i> , 2016, 316, 232-241.	6.5	181
12	Activation of persulfate with vanadium species for PCBs degradation: A mechanistic study. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 1-11.	10.8	175
13	Transformation of polychlorinated biphenyls by persulfate at ambient temperature. <i>Chemosphere</i> , 2013, 90, 1573-1580.	4.2	140
14	Zero-valent iron activated persulfate remediation of polycyclic aromatic hydrocarbon-contaminated soils: An in situ pilot-scale study. <i>Chemical Engineering Journal</i> , 2019, 355, 65-75.	6.6	139
15	Superoxide mediated production of hydroxyl radicals by magnetite nanoparticles: Demonstration in the degradation of 2-chlorobiphenyl. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 68-75.	6.5	126
16	Reductive Hexachloroethane Degradation by S ₂ O ₈ ²⁻ with Thermal Activation of Persulfate under Anaerobic Conditions. <i>Environmental Science & Technology</i> , 2018, 52, 8548-8557.	4.6	117
17	Redox-Active Oxygen-Containing Functional Groups in Activated Carbon Facilitate Microbial Reduction of Ferrihydrite. <i>Environmental Science & Technology</i> , 2017, 51, 9709-9717.	4.6	113
18	Mechanisms of Interaction between Persulfate and Soil Constituents: Activation, Free Radical Formation, Conversion, and Identification. <i>Environmental Science & Technology</i> , 2018, 52, 14352-14361.	4.6	109

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19	Effects of exposure pathways on the accumulation and phytotoxicity of silver nanoparticles in soybean and rice. <i>Nanotoxicology</i> , 2017, 11, 699-709.	1.6	107
20	Efficient activation of persulfate decomposition by Cu ₂ FeSnS ₄ nanomaterial for bisphenol A degradation: Kinetics, performance and mechanism studies. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 278-285.	10.8	107
21	Synergy between Iron and Selenide on FeSe ₂ (111) Surface Driving Peroxymonosulfate Activation for Efficient Degradation of Pollutants. <i>Environmental Science & Technology</i> , 2020, 54, 15489-15498.	4.6	90
22	New Insights into the Mechanism of the Catalytic Decomposition of Hydrogen Peroxide by Activated Carbon: Implications for Degradation of Diethyl Phthalate. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19925-19933.	1.8	86
23	Biofilms and extracellular polymeric substances mediate the transport of graphene oxide nanoparticles in saturated porous media. <i>Journal of Hazardous Materials</i> , 2015, 300, 467-474.	6.5	83
24	Roxarsone binding to soil-derived dissolved organic matter: Insights from multi-spectroscopic techniques. <i>Chemosphere</i> , 2016, 155, 225-233.	4.2	83
25	Effect of iron oxide reductive dissolution on the transformation and immobilization of arsenic in soils: New insights from X-ray photoelectron and X-ray absorption spectroscopy. <i>Journal of Hazardous Materials</i> , 2014, 279, 212-219.	6.5	77
26	Effect of Organic Matter on Sorption of Zn on Soil: Elucidation by Wien Effect Measurements and EXAFS Spectroscopy. <i>Environmental Science & Technology</i> , 2016, 50, 2931-2937.	4.6	77
27	Adsorption of diethyl phthalate ester to clay minerals. <i>Chemosphere</i> , 2015, 119, 690-696.	4.2	75
28	Efficient transformation of DDT by peroxymonosulfate activated with cobalt in aqueous systems: Kinetics, products, and reactive species identification. <i>Chemosphere</i> , 2016, 148, 68-76.	4.2	71
29	A Mechanistic Understanding of Hydrogen Peroxide Decomposition by Vanadium Minerals for Diethyl Phthalate Degradation. <i>Environmental Science & Technology</i> , 2018, 52, 2178-2185.	4.6	69
30	Homogenous activation of persulfate by different species of vanadium ions for PCBs degradation. <i>Chemical Engineering Journal</i> , 2017, 323, 84-95.	6.6	61
31	Significant contribution of metastable particulate organic matter to natural formation of silver nanoparticles in soils. <i>Nature Communications</i> , 2019, 10, 3775.	5.8	57
32	The degradation of diethyl phthalate by reduced smectite clays and dissolved oxygen. <i>Chemical Engineering Journal</i> , 2019, 355, 247-254.	6.6	56
33	The transformation and fate of silver nanoparticles in paddy soil: effects of soil organic matter and redox conditions. <i>Environmental Science: Nano</i> , 2017, 4, 919-928.	2.2	55
34	Environmental and human health risks from metal exposures nearby a Pb-Zn-Ag mine, China. <i>Science of the Total Environment</i> , 2020, 698, 134326.	3.9	55
35	A Meta-Analysis on Phenotypic Variation in Cadmium Accumulation of Rice and Wheat: Implications for Food Cadmium Risk Control. <i>Pedosphere</i> , 2019, 29, 545-553.	2.1	51
36	Comparison of Persulfate Activation and Fenton Reaction in Remediating an Organophosphorus Pesticides-Polluted Soil. <i>Pedosphere</i> , 2017, 27, 465-474.	2.1	48

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37	Surface-bound radical control rapid organic contaminant degradation through peroxymonosulfate activation by reduced Fe-bearing smectite clays. <i>Journal of Hazardous Materials</i> , 2020, 389, 121819.	6.5	48
38	Active Iron Phases Regulate the Abiotic Transformation of Organic Carbon during Redox Fluctuation Cycles of Paddy Soil. <i>Environmental Science & Technology</i> , 2021, 55, 14281-14293.	4.6	48
39	Oxidation mechanism of As(III) in the presence of polyphenols: New insights into the reactive oxygen species. <i>Chemical Engineering Journal</i> , 2016, 285, 69-76.	6.6	47
40	Genotypic variation and mechanism in uptake and translocation of perfluorooctanoic acid (PFOA) in lettuce (<i>Lactuca sativa</i> L.) cultivars grown in PFOA-polluted soils. <i>Science of the Total Environment</i> , 2018, 636, 999-1008.	3.9	45
41	Sorption Mechanism, Kinetics, and Isotherms of Di- <i>n</i> -butyl Phthalate to Different Soil Particle-Size Fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4734-4745.	2.4	45
42	Efficient activation of peroxymonosulfate by copper sulfide for diethyl phthalate degradation: Performance, radical generation and mechanism. <i>Science of the Total Environment</i> , 2020, 749, 142387.	3.9	44
43	Mechanistic understanding of reduced AgNP phytotoxicity induced by extracellular polymeric substances. <i>Journal of Hazardous Materials</i> , 2016, 308, 21-28.	6.5	43
44	Mechanism and Implication of the Sorption of Perfluorooctanoic Acid by Varying Soil Size Fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 11569-11579.	2.4	43
45	Discerning the Sources of Silver Nanoparticle in a Terrestrial Food Chain by Stable Isotope Tracer Technique. <i>Environmental Science & Technology</i> , 2019, 53, 3802-3810.	4.6	42
46	Automatic pH control system enhances the dechlorination of 2,4,4-trichlorobiphenyl and extracted PCBs from contaminated soil by nanoscale FeO and Pd/FeO. <i>Environmental Science and Pollution Research</i> , 2012, 19, 448-457.	2.7	41
47	The effects of Fe-bearing smectite clays on OH formation and diethyl phthalate degradation with polyphenols and H ₂ O ₂ . <i>Journal of Hazardous Materials</i> , 2018, 357, 483-490.	6.5	41
48	Active iron species driven hydroxyl radicals formation in oxygenation of different paddy soils: Implications to polycyclic aromatic hydrocarbons degradation. <i>Water Research</i> , 2021, 203, 117484.	5.3	40
49	Farmland heavy metals can migrate to deep soil at a regional scale: A case study on a wastewater-irrigated area in China. <i>Environmental Pollution</i> , 2021, 281, 116977.	3.7	39
50	Inhibition Mechanisms of Zn Precipitation on Aluminum Oxide by Glyphosate: A ³¹ P NMR and Zn EXAFS Study. <i>Environmental Science & Technology</i> , 2013, 47, 4211-4219.	4.6	37
51	Effects of clay minerals on diethyl phthalate degradation in Fenton reactions. <i>Chemosphere</i> , 2016, 165, 52-58.	4.2	37
52	Pyrogenic Carbon Initiated the Generation of Hydroxyl Radicals from the Oxidation of Sulfide. <i>Environmental Science & Technology</i> , 2021, 55, 6001-6011.	4.6	36
53	Efficient transformation of DDT with peroxymonosulfate activation by different crystallographic MnO ₂ . <i>Science of the Total Environment</i> , 2021, 759, 142864.	3.9	34
54	Cotransformation of Carbon Dots and Contaminant under Light in Aqueous Solutions: A Mechanistic Study. <i>Environmental Science & Technology</i> , 2019, 53, 6235-6244.	4.6	33

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55	Photochemical characterization of paddy water during rice cultivation: Formation of reactive intermediates for As(III) oxidation. <i>Water Research</i> , 2021, 206, 117721.	5.3	33
56	Evidence for the generation of reactive oxygen species from hydroquinone and benzoquinone: Roles in arsenite oxidation. <i>Chemosphere</i> , 2016, 150, 71-78.	4.2	32
57	Cd(II) retention and remobilization on $\hat{\Gamma}$ -MnO ₂ and Mn(III)-rich $\hat{\Gamma}$ -MnO ₂ affected by Mn(II). <i>Environment International</i> , 2019, 130, 104932.	4.8	32
58	Transfer and toxicity of silver nanoparticles in the food chain. <i>Environmental Science: Nano</i> , 2021, 8, 1519-1535.	2.2	32
59	Alteration of Crop Yield and Quality of Three Vegetables upon Exposure to Silver Nanoparticles in Sludge-Amended Soil. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2472-2480.	3.2	31
60	Effects of Soil Organic Matter on Sorption of Metal Ions on Soil Clay Particles. <i>Soil Science Society of America Journal</i> , 2015, 79, 794-802.	1.2	30
61	Fate of As(III) and As(V) during Microbial Reduction of Arsenic-Bearing Ferrihydrite Facilitated by Activated Carbon. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 878-887.	1.2	30
62	Determination of Trace Perfluoroalkyl Carboxylic Acids in Edible Crop Matrices: Matrix Effect and Method Development. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8763-8772.	2.4	29
63	Uptake, translocation, and transformation of silver nanoparticles in plants. <i>Environmental Science: Nano</i> , 2022, 9, 12-39.	2.2	29
64	Thiol-functionalized metal-organic frameworks embedded with chelator-modified magnetite for high-efficiency and recyclable mercury removal in aqueous solutions. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6724-6730.	5.2	29
65	MoS ₂ Nanosheets-Cyanobacteria Interaction: Reprogrammed Carbon and Nitrogen Metabolism. <i>ACS Nano</i> , 2021, 15, 16344-16356.	7.3	28
66	Remediation of polychlorinated biphenyl-contaminated soil by soil washing and subsequent TiO ₂ photocatalytic degradation. <i>Journal of Soils and Sediments</i> , 2012, 12, 1371-1379.	1.5	27
67	Differential bioaccumulation patterns of nanosized and dissolved silver in a land snail <i>Achatina fulica</i> . <i>Environmental Pollution</i> , 2017, 222, 50-57.	3.7	27
68	Intraspecific variability of ciprofloxacin accumulation, tolerance, and metabolism in Chinese flowering cabbage (<i>Brassica parachinensis</i>). <i>Journal of Hazardous Materials</i> , 2018, 349, 252-261.	6.5	27
69	Sorption kinetics, isotherms, and mechanism of aniline aerofloat to agricultural soils with various physicochemical properties. <i>Ecotoxicology and Environmental Safety</i> , 2018, 154, 84-91.	2.9	27
70	Nonselective uptake of silver and gold nanoparticles by wheat. <i>Nanotoxicology</i> , 2019, 13, 1073-1086.	1.6	27
71	Soil geochemistry and digestive solubilization control mercury bioaccumulation in the earthworm <i>Pheretima guillemi</i> . <i>Journal of Hazardous Materials</i> , 2015, 292, 44-51.	6.5	26
72	Extraction and speciation analysis of roxarsone and its metabolites from soils with different physicochemical properties. <i>Journal of Soils and Sediments</i> , 2016, 16, 1557-1568.	1.5	26

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73	Transformation of tetracyclines induced by Fe(III)-bearing smectite clays under anoxic dark conditions. <i>Water Research</i> , 2019, 165, 114997.	5.3	26
74	Uptake kinetics of silver nanoparticles by plant: relative importance of particles and dissolved ions. <i>Nanotoxicology</i> , 2020, 14, 654-666.	1.6	26
75	Cultivar-Dependent Accumulation and Translocation of Perfluorooctanesulfonate among Lettuce (<i>Lactuca sativa</i> L.) Cultivars Grown on Perfluorooctanesulfonate-Contaminated Soil. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 13096-13106.	2.4	25
76	Rapid DDTs degradation by thermally activated persulfate in soil under aerobic and anaerobic conditions: Reductive radicals vs. oxidative radicals. <i>Journal of Hazardous Materials</i> , 2021, 402, 123557.	6.5	25
77	Natural degradation of roxarsone in contrasting soils: Degradation kinetics and transformation products. <i>Science of the Total Environment</i> , 2017, 607-608, 132-140.	3.9	24
78	Effects of molecular weight-fractionated natural organic matter on the phytoavailability of silver nanoparticles. <i>Environmental Science: Nano</i> , 2018, 5, 969-979.	2.2	24
79	The formation of $\cdot\text{OH}$ with Fe-bearing smectite clays and low-molecular-weight thiols: Implication of As(III) removal. <i>Water Research</i> , 2020, 174, 115631.	5.3	24
80	High retention of silver sulfide nanoparticles in natural soils. <i>Journal of Hazardous Materials</i> , 2019, 378, 120735.	6.5	23
81	Efficient transformation of diethyl phthalate using calcium peroxide activated by pyrite. <i>Chemosphere</i> , 2020, 253, 126662.	4.2	23
82	Role of Reduced Sulfur in the Transformation of Cd(II) Immobilized by $\gamma\text{-MnO}_2$. <i>Environmental Science & Technology</i> , 2020, 54, 14955-14963.	4.6	22
83	Dissolution and Transformation of ZnO Nano- and Microparticles in Soil Mineral Suspensions. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 495-502.	1.2	18
84	Retention of silver nanoparticles and silver ion to natural soils: effects of soil physicochemical properties. <i>Journal of Soils and Sediments</i> , 2018, 18, 2491-2499.	1.5	17
85	Oral bioaccessibility of silver nanoparticles and ions in natural soils: Importance of soil properties. <i>Environmental Pollution</i> , 2018, 243, 364-373.	3.7	17
86	Long-term dissolution and transformation of ZnO in soils: The roles of soil pH and ZnO particle size. <i>Journal of Hazardous Materials</i> , 2021, 415, 125604.	6.5	17
87	Mechanistic Study of the Effects of Agricultural Amendments on Photochemical Processes in Paddy Water during Rice Growth. <i>Environmental Science & Technology</i> , 2022, 56, 4221-4230.	4.6	17
88	Efficient chlorinated alkanes degradation in soil by combining alkali hydrolysis with thermally activated persulfate. <i>Journal of Hazardous Materials</i> , 2022, 438, 129571.	6.5	17
89	Ageing reduces the bioavailability of copper and cadmium in soil immobilized by biochars with various concentrations of endogenous metals. <i>Science of the Total Environment</i> , 2021, 797, 149136.	3.9	16
90	Global Picture of Protein Regulation in Response to Dibutyl Phthalate (DBP) Stress of Two <i>Brassica parachinensis</i> Cultivars Differing in DBP Accumulation. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4768-4779.	2.4	15

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91	Contrasting effects of iron plaque on the bioavailability of metallic and sulfidized silver nanoparticles to rice. <i>Environmental Pollution</i> , 2020, 260, 113969.	3.7	15
92	Photooxidation mechanism of As(III) by straw-derived dissolved organic matter. <i>Science of the Total Environment</i> , 2021, 757, 144049.	3.9	15
93	Identifying Plant Stress Responses to Roxarsone in Soybean Root Exudates: New Insights from Two-Dimensional Correlation Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 53-62.	2.4	14
94	Nano Fe ₂ O ₃ embedded in montmorillonite with citric acid enhanced photocatalytic activity of nanoparticles towards diethyl phthalate. <i>Journal of Environmental Sciences</i> , 2021, 101, 248-259.	3.2	14
95	Mechanism of significant enhancement of VO ₂ -Fenton-like reactions by oxalic acid for diethyl phthalate degradation. <i>Separation and Purification Technology</i> , 2021, 279, 119671.	3.9	14
96	Weathered Microplastics Induce Silver Nanoparticle Formation. <i>Environmental Science and Technology Letters</i> , 2022, 9, 179-185.	3.9	14
97	Metabolic response of earthworms (<i>Pheretima guillemi</i>) to silver nanoparticles in sludge-amended soil. <i>Environmental Pollution</i> , 2022, 300, 118954.	3.7	14
98	Hydroxyl radical formation during oxygen-mediated oxidation of ferrous iron on mineral surface: Dependence on mineral identity. <i>Journal of Hazardous Materials</i> , 2022, 434, 128861.	6.5	14
99	The overlooked oxidative dissolution of silver sulfide nanoparticles by thermal activation of persulfate: Processes, mechanisms, and influencing factors. <i>Science of the Total Environment</i> , 2021, 760, 144504.	3.9	13
100	Phytotoxicity and uptake of roxarsone by wheat (<i>Triticum aestivum</i> L.) seedlings. <i>Environmental Pollution</i> , 2016, 219, 210-218.	3.7	12
101	Pyridinic- and Pyrrolic Nitrogen in Pyrogenic Carbon Improves Electron Shuttling during Microbial Fe(III) Reduction. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 900-909.	1.2	11
102	Macroscopic and microscopic investigation of adsorption and precipitation of Zn on γ -alumina in the absence and presence of As. <i>Chemosphere</i> , 2017, 178, 309-316.	4.2	9
103	Copper(I) Promotes Silver Sulfide Dissolution and Increases Silver Phytoavailability. <i>Environmental Science & Technology</i> , 2020, 54, 5589-5597.	4.6	9
104	Rice exposure to silver nanoparticles in a life cycle study: effect of dose responses on grain metabolomic profile, yield, and soil bacteria. <i>Environmental Science: Nano</i> , 2022, 9, 2195-2206.	2.2	9
105	Effects of low-molecular-weight organic acids on the acute lethality, accumulation, and enzyme activity of cadmium in <i>Eisenia fetida</i> in a simulated soil solution. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1005-1011.	2.2	8
106	Biotic Process Dominated the Uptake and Transformation of Ag ⁺ by <i>Shewanella oneidensis</i> MR-1. <i>Environmental Science & Technology</i> , 2022, 56, 2366-2377.	4.6	8
107	Efficient activation of peroxymonosulfate by C ₃ N ₅ doped with cobalt for organic contaminant degradation. <i>Environmental Science: Nano</i> , 2022, 9, 2534-2547.	2.2	8
108	Effect of Straw Return on Hydroxyl Radical Formation in Paddy Soil. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 106, 211-217.	1.3	7

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109	Hydroxyl radicals induced mineralization of organic carbon during oxygenation of ferrous mineral-organic matter associations: Adsorption versus coprecipitation. <i>Science of the Total Environment</i> , 2022, 816, 151667.	3.9	6
110	Effect of metal cations on antimicrobial activity and compartmentalization of silver in <i>Shewanella oneidensis</i> MR-1 upon exposure to silver ions. <i>Science of the Total Environment</i> , 2022, 838, 156401.	3.9	6
111	Rapid As(III) oxidation mediated by activated carbons: Reactive species vs. direct oxidation. <i>Science of the Total Environment</i> , 2022, 822, 153536.	3.9	5
112	Mechanistic insight into sulfite-enhanced diethyl phthalate degradation by hydrogen atom under UV light. <i>Separation and Purification Technology</i> , 2022, 295, 121310.	3.9	5
113	Dynamic changes of reactive oxygen species in paddy overlying water: mechanisms and implications. <i>Journal of Soils and Sediments</i> , 2022, 22, 1746-1760.	1.5	4
114	Quantification of the redox properties of microplastics and their effect on arsenite oxidation. <i>Fundamental Research</i> , 2023, 3, 777-785.	1.6	4
115	Copper pre-exposure reduces AgNP bioavailability to wheat. <i>Science of the Total Environment</i> , 2020, 707, 136084.	3.9	3
116	Response to Comment on "Redox-Active Oxygen-Containing Functional Groups in Activated Carbon Facilitate Microbial Reduction of Ferrihydrite". <i>Environmental Science & Technology</i> , 2018, 52, 4487-4488.	4.6	1
117	Reactive oxygen species formation in thiols solution mediated by pyrogenic carbon under aerobic conditions. <i>Journal of Hazardous Materials</i> , 2021, 415, 125726.	6.5	1
118	Greater Bioaccessibility of Silver Nanoparticles in Earthworm than in Soils. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, , 1.	1.3	0