

Wei Zhang

List of Publications by Citations

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115
papers

3,599
citations

33
h-index

56
g-index

119
ext. papers

4,577
ext. citations

8
avg. IF

5.77
L-index

#	Paper	IF	Citations
115	Mechanism of Arsenic Adsorption on Magnetite Nanoparticles from Water: Thermodynamic and Spectroscopic Studies. <i>Environmental Science & Technology</i> , 2015 , 49, 7726-34	10.3	239
114	Transport of biochar particles in saturated granular media: effects of pyrolysis temperature and particle size. <i>Environmental Science & Technology</i> , 2013 , 47, 821-8	10.3	220
113	A duodecennial national synthesis of antibiotics in China's major rivers and seas (2005-2016). <i>Science of the Total Environment</i> , 2018 , 615, 906-917	10.2	197
112	Transport and Fate of Microbial Pathogens in Agricultural Settings. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 775-893	11.1	155
111	Antagonistic effects of humic acid and iron oxyhydroxide grain-coating on biochar nanoparticle transport in saturated sand. <i>Environmental Science & Technology</i> , 2013 , 47, 5154-61	10.3	132
110	Size effect of polystyrene microplastics on sorption of phenanthrene and nitrobenzene. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 173, 331-338	7	111
109	Aggregation kinetics and transport of single-walled carbon nanotubes at low surfactant concentrations. <i>Environmental Science & Technology</i> , 2012 , 46, 4458-65	10.3	105
108	Insight into the distribution of pharmaceuticals in soil-water-plant systems. <i>Water Research</i> , 2019 , 152, 38-46	12.5	84
107	Colloid transport and retention in unsaturated porous media: effect of colloid input concentration. <i>Environmental Science & Technology</i> , 2010 , 44, 4965-72	10.3	82
106	Transport and retention of biochar particles in porous media: effect of pH, ionic strength, and particle size. <i>Ecology</i> , 2010 , 3, 497-508	2.5	79
105	Effects of humic and fulvic acids on aggregation of aqu/nC60 nanoparticles. <i>Water Research</i> , 2013 , 47, 1793-802	12.5	77
104	Calcined layered double hydroxides/reduced graphene oxide composites with improved photocatalytic degradation of paracetamol and efficient oxidation-adsorption of As(III). <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 550-562	21.8	77
103	Morphology Control and Photocatalysis Enhancement by in Situ Hybridization of Cuprous Oxide with Nitrogen-Doped Carbon Quantum Dots. <i>Langmuir</i> , 2016 , 32, 9418-27	4	76
102	Quantification and characterization of dissolved organic carbon from biochars. <i>Geoderma</i> , 2019 , 335, 161-169	6.7	74
101	Next-Generation Multifunctional Carbon-Metal Nanohybrids for Energy and Environmental Applications. <i>Environmental Science & Technology</i> , 2019 , 53, 7265-7287	10.3	73
100	Comparison of accelerated solvent extraction and quick, easy, cheap, effective, rugged and safe method for extraction and determination of pharmaceuticals in vegetables. <i>Journal of Chromatography A</i> , 2015 , 1404, 1-9	4.5	56
99	Hyperexponential and nonmonotonic retention of polyvinylpyrrolidone-coated silver nanoparticles in an Ultisol. <i>Journal of Contaminant Hydrology</i> , 2014 , 164, 35-48	3.9	56

98	Experimental and theoretical investigations on Se(IV) and Se(VI) adsorption to UiO-66-based metal-organic frameworks. <i>Environmental Science: Nano</i> , 2018 , 5, 1441-1453	7.1	55
97	Fly-ash-amended sand as filter media in bioretention cells to improve phosphorus removal. <i>Water Environment Research</i> , 2008 , 80, 507-16	2.8	54
96	A review of colloid transport in fractured rocks. <i>Journal of Mountain Science</i> , 2012 , 9, 770-787	2.1	53
95	Impact of dissolved organic matter on colloid transport in the vadose zone: deterministic approximation of transport deposition coefficients from polymeric coating characteristics. <i>Water Research</i> , 2011 , 45, 1691-701	12.5	51
94	Antibiotic resistance genes and bacterial communities in cornfield and pasture soils receiving swine and dairy manures. <i>Environmental Pollution</i> , 2019 , 248, 947-957	9.3	49
93	Mechanistic study on uptake and transport of pharmaceuticals in lettuce from water. <i>Environment International</i> , 2019 , 131, 104976	12.9	48
92	Fullerene nanoparticles exhibit greater retention in freshwater sediment than in model porous media. <i>Water Research</i> , 2012 , 46, 2992-3004	12.5	45
91	Chemical Aging Changed Aggregation Kinetics and Transport of Biochar Colloids. <i>Environmental Science & Technology</i> , 2019 , 53, 8136-8146	10.3	44
90	Photocatalytic degradation of cephalexin by ZnO nanowires under simulated sunlight: Kinetics, influencing factors, and mechanisms. <i>Environment International</i> , 2019 , 132, 105105	12.9	44
89	Surfactant-mediated control of colloid pattern assembly and attachment strength in evaporating droplets. <i>Langmuir</i> , 2013 , 29, 1831-40	4	44
88	Laboratory assessment of the mobility of water-dispersed engineered nanoparticles in a red soil (Ultisol). <i>Journal of Hydrology</i> , 2014 , 519, 1677-1687	6	42
87	Novel Biochar-Plant Tandem Approach for Remediating Hexachlorobenzene Contaminated Soils: Proof-of-Concept and New Insight into the Rhizosphere. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 5464-71	5.7	38
86	Micropore clogging by leachable pyrogenic organic carbon: A new perspective on sorption irreversibility and kinetics of hydrophobic organic contaminants to black carbon. <i>Environmental Pollution</i> , 2017 , 220, 1349-1358	9.3	35
85	Colloid retention at the meniscus-wall contact line in an open microchannel. <i>Water Research</i> , 2012 , 46, 295-306	12.5	35
84	Phytoavailability and mechanism of bound PAH residues in field contaminated soils. <i>Environmental Pollution</i> , 2017 , 222, 465-476	9.3	33
83	Ecotoxicological effects of sulfonamide on and its removal by the submerged plant <i>Vallisneria spiralis</i> (Lour.) Hara. <i>Water Research</i> , 2020 , 170, 115354	12.5	33
82	Polyaromatic hydrocarbons in biochars and human health risks of food crops grown in biochar-amended soils: A synthesis study. <i>Environment International</i> , 2019 , 130, 104899	12.9	30
81	Simultaneous determination of organotin pesticides by HPLC-ICP-MS and their sorption, desorption, and transformation in freshwater sediments. <i>Water Research</i> , 2016 , 95, 185-94	12.5	29

80	Temporal physicochemical changes and transformation of biochar in a rice paddy: Insights from a 9-year field experiment. <i>Science of the Total Environment</i> , 2020 , 721, 137670	10.2	28
79	Temporal changes in Aqu/C60 physical-chemical, deposition, and transport characteristics in aqueous systems. <i>Environmental Science & Technology</i> , 2011 , 45, 5170-7	10.3	28
78	A coupled field study of subsurface fracture flow and colloid transport. <i>Journal of Hydrology</i> , 2015 , 524, 476-488	6	27
77	Bioavailability of Soil-Sorbed Tetracycline to <i>Escherichia coli</i> under Unsaturated Conditions. <i>Environmental Science & Technology</i> , 2017 , 51, 6165-6173	10.3	26
76	Transport and retention of colloidal particles in partially saturated porous media: Effect of ionic strength. <i>Water Resources Research</i> , 2009 , 45,	5.4	26
75	Fabrication of niobium doped titanate nanoflakes with enhanced visible-light-driven photocatalytic activity for efficient ibuprofen degradation. <i>Chinese Chemical Letters</i> , 2019 , 30, 2177-2180	8.1	25
74	Reverse engineering of biochar. <i>Bioresource Technology</i> , 2015 , 183, 163-74	11	25
73	Sorption of Lincomycin by Manure-Derived Biochars from Water. <i>Journal of Environmental Quality</i> , 2016 , 45, 519-27	3.4	25
72	Pharmaceutical exposure changed antibiotic resistance genes and bacterial communities in soil-surface- and overhead-irrigated greenhouse lettuce. <i>Environment International</i> , 2019 , 131, 105031	12.9	25
71	Uptake and Accumulation of Pharmaceuticals in Overhead- and Surface-Irrigated Greenhouse Lettuce. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 822-830	5.7	23
70	Sediments inhibit adsorption of ¹⁷ β-Estradiol and ¹⁷ β-Ethinylestradiol to carbon nanotubes and graphene oxide. <i>Environmental Science: Nano</i> , 2017 , 4, 1900-1910	7.1	23
69	A rapid screening technique for estimating nanoparticle transport in porous media. <i>Water Research</i> , 2013 , 47, 4086-94	12.5	23
68	Activation of sulfite by single-atom Fe deposited graphitic carbon nitride for diclofenac removal: The synergetic effect of transition metal and photocatalysis. <i>Chemical Engineering Journal</i> , 2021 , 407, 127167	14.7	23
67	Abiotic reduction of trifluralin and pendimethalin by sulfides in black-carbon-amended coastal sediments. <i>Journal of Hazardous Materials</i> , 2016 , 310, 125-34	12.8	22
66	Potential metabolism of pharmaceuticals in radish: Comparison of in vivo and in vitro exposure. <i>Environmental Pollution</i> , 2018 , 242, 962-969	9.3	22
65	Effect of hydrofracking fluid on colloid transport in the unsaturated zone. <i>Environmental Science & Technology</i> , 2014 , 48, 8266-74	10.3	21
64	Biochar decreased the bioavailability of Zn to rice and wheat grains: Insights from microscopic to macroscopic scales. <i>Science of the Total Environment</i> , 2018 , 621, 160-167	10.2	21
63	Extracellular Polymeric Substances Acting as a Permeable Barrier Hinder the Lateral Transfer of Antibiotic Resistance Genes. <i>Frontiers in Microbiology</i> , 2019 , 10, 736	5.7	20

62	Quantification of colloid retention and release by straining and energy minima in variably saturated porous media. <i>Environmental Science & Technology</i> , 2013 , 47, 8256-64	10.3	20
61	Effect of Soil Reduction on Phosphorus Sorption of an Organic-Rich Silt Loam. <i>Soil Science Society of America Journal</i> , 2010 , 74, 240-249	2.5	20
60	Long-term sorption of lincomycin to biochars: The intertwined roles of pore diffusion and dissolved organic carbon. <i>Water Research</i> , 2019 , 161, 108-118	12.5	19
59	Environmentally-relevant concentrations of Al(III) and Fe(III) cations induce aggregation of free DNA by complexation with phosphate group. <i>Water Research</i> , 2017 , 123, 58-66	12.5	17
58	Assessing transfer of pesticide residues from chrysanthemum flowers into tea solution and associated health risks. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 187, 109859	7	16
57	Can pore-clogging by ash explain post-fire runoff?. <i>International Journal of Wildland Fire</i> , 2016 , 25, 294	3.2	16
56	Effects of reclaimed water matrix on fate of pharmaceuticals and personal care products in soil. <i>Chemosphere</i> , 2016 , 156, 286-293	8.4	16
55	Residue behavior and dietary intake risk assessment of three fungicides in tomatoes (<i>Lycopersicon esculentum</i> Mill.) under greenhouse conditions. <i>Regulatory Toxicology and Pharmacology</i> , 2016 , 81, 284-287	3.4	16
54	DNA Facilitates the Sorption of Polycyclic Aromatic Hydrocarbons on Montmorillonites. <i>Environmental Science & Technology</i> , 2018 , 52, 2694-2703	10.3	15
53	Enhancement of Heavy Metals Retention in Sandy Soil by Amendment with Fly Ash. <i>Transactions of the ASABE</i> , 2008 , 51, 1247-1254	0.9	15
52	Greater microbial carbon use efficiency and carbon sequestration in soils: Amendment of biochar versus crop straws. <i>GCB Bioenergy</i> , 2020 , 12, 1092-1103	5.6	15
51	Roxarsone exposure jeopardizes nitrogen removal and regulates bacterial community in biological sequential batch reactors. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 159, 232-239	7	15
50	Plasmid binding to metal oxide nanoparticles inhibited lateral transfer of antibiotic resistance genes. <i>Environmental Science: Nano</i> , 2019 , 6, 1310-1322	7.1	14
49	Modulating cellular cytotoxicity and phototoxicity of fluorescent organic salts through counterion pairing. <i>Scientific Reports</i> , 2019 , 9, 15288	4.9	14
48	Metabolic Demethylation and Oxidation of Caffeine during Uptake by Lettuce. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 7907-7915	5.7	14
47	Impact of biochar amendment on the uptake, fate and bioavailability of pharmaceuticals in soil-radish systems. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122852	12.8	13
46	Roots-Enhanced Preferential Flows in Deciduous and Coniferous Forest Soils Revealed by Dual-Tracer Experiments. <i>Journal of Environmental Quality</i> , 2019 , 48, 136-146	3.4	13
45	Different degradation mechanisms of carbamazepine and diclofenac by single-atom Barium embedded g-CN: the role of photosensitization-like mechanism. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125936	12.8	13

44	Evaluation of Two Langmuir Models for Phosphorus Sorption of Phosphorus-Enriched Soils in New York for Environmental Applications. <i>Soil Science</i> , 2009 , 174, 523-530	0.9	12
43	Uptake and dissipation of metalaxyl-M, fludioxonil, cyantranilprole and thiamethoxam in greenhouse chrysanthemum. <i>Environmental Pollution</i> , 2020 , 257, 113499	9.3	12
42	Interactions between nanoparticles and fractal surfaces. <i>Water Research</i> , 2019 , 151, 296-309	12.5	12
41	Transport of sodium dodecylbenzene sulfonate (SDBS)-dispersed carbon nanotubes and enhanced mobility of tetrabromobisphenol A (TBBPA) in saturated porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 497, 205-213	5.1	11
40	A Fast and Easily Parallelizable Biosensor Method for Measuring Extractable Tetracyclines in Soils. <i>Environmental Science & Technology</i> , 2020 , 54, 758-767	10.3	11
39	Bioavailability of tetracycline to antibiotic resistant <i>Escherichia coli</i> in water-clay systems. <i>Environmental Pollution</i> , 2018 , 243, 1078-1086	9.3	11
38	Species-dependent response of food crops to polystyrene nanoplastics and microplastics. <i>Science of the Total Environment</i> , 2021 , 796, 148750	10.2	11
37	Nutrient transport within three vegetative treatment areas receiving silage bunker runoff. <i>Journal of Environmental Management</i> , 2011 , 92, 587-95	7.9	10
36	The Effects of Timing of Inundation on Soil Physical Quality in the Water-Level Fluctuation Zone of the Three Gorges Reservoir Region, China. <i>Vadose Zone Journal</i> , 2018 , 17, 180043	2.7	10
35	The impact of biofilm-forming potential and tafi production on transport of environmental <i>Salmonella</i> through unsaturated porous media. <i>Biologia (Poland)</i> , 2009 , 64, 460-464	1.5	9
34	Tracer movement through paired vegetative treatment areas receiving silage bunker runoff. <i>Journal of Soils and Water Conservation</i> , 2011 , 66, 18-28	2.2	9
33	Progresses and emerging trends of arsenic research in the past 120 years. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 1306-1353	11.1	9
32	Plant Root Exudates Decrease Mobility of Smectite Colloids in Porous Media in Contrast to Humic Acid. <i>Soil Science Society of America Journal</i> , 2015 , 79, 467-475	2.5	8
31	Transport and Retention of <i>Phytophthora capsici</i> Zoospores in Saturated Porous Media. <i>Environmental Science & Technology</i> , 2016 , 50, 9270-8	10.3	8
30	Effect of Clay Minerals on Transport of Surfactants Dispersed Multi-walled Carbon Nanotubes in Porous Media. <i>Acta Geologica Sinica</i> , 2017 , 91, 135-144	0.7	7
29	Nonmonotonic Effect of Montmorillonites on the Horizontal Transfer of Antibiotic Resistance Genes to Bacteria. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 421-427	11	7
28	Bacterial foraging facilitates aggregation of <i>Chlamydomonas microspheara</i> in an organic carbon source-limited aquatic environment. <i>Environmental Pollution</i> , 2020 , 259, 113924	9.3	7
27	Hydrogen Production from Urea Sewage on NiFe-Based Porous Electrocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	6

26	Bacterial community assembly and antibiotic resistance genes in the lettuce-soil system upon antibiotic exposure. <i>Science of the Total Environment</i> , 2021 , 778, 146255	10.2	6
25	Transcriptomic analysis of zebrafish (<i>Danio rerio</i>) embryos to assess integrated biotoxicity of Xitiaoxi River waters. <i>Environmental Pollution</i> , 2018 , 242, 42-53	9.3	6
24	Deposition and release of carboxylated graphene in saturated porous media: Effect of transient solution chemistry. <i>Chemosphere</i> , 2019 , 235, 643-650	8.4	5
23	Development of a new long-term drought resilient soil water retention technology. <i>Journal of Soils and Water Conservation</i> , 2014 , 69, 154A-160A	2.2	5
22	Comparing root concentration factors of antibiotics for lettuce (<i>Lactuca sativa</i>) measured in rhizosphere and bulk soils. <i>Chemosphere</i> , 2021 , 262, 127677	8.4	5
21	Organochlorinated pesticides expedite the enzymatic degradation of DNA. <i>Communications Biology</i> , 2019 , 2, 81	6.7	4
20	Stomata facilitate foliar sorption of silver nanoparticles by <i>Arabidopsis thaliana</i> . <i>Environmental Pollution</i> , 2022 , 292, 118448	9.3	4
19	Uptake of cephalexin by lettuce, celery, and radish from water. <i>Chemosphere</i> , 2021 , 263, 127916	8.4	4
18	Hydrogen bonding rather than cation bridging promotes graphene oxide attachment to lipid membranes in the presence of heavy metals. <i>Environmental Science: Nano</i> , 2020 , 7, 2240-2251	7.1	3
17	Advancing Soil Physics for Securing Food, Water, Soil and Ecosystem Services. <i>Vadose Zone Journal</i> , 2018 , 17, 1-7	2.7	3
16	Dynamics and sources of colloids in shallow groundwater in lowland wells and fracture flow in sloping farmland. <i>Water Research</i> , 2019 , 156, 252-263	12.5	2
15	Design and risk assessment tool for vegetative treatment areas receiving agricultural wastewater: preliminary results. <i>Journal of Environmental Management</i> , 2010 , 91, 1794-801	7.9	2
14	Rapid Sand Filtration of Recycled Irrigation Water Controlled Pythium Root Rot of Poinsettia in Greenhouse. <i>HortTechnology</i> , 2019 , 29, 578-589	1.3	2
13	Light modulates the effect of antibiotic norfloxacin on photosynthetic processes of <i>Microcystis aeruginosa</i> . <i>Aquatic Toxicology</i> , 2021 , 235, 105826	5.1	2
12	Implication of cation-bridging interaction contribution to sorption of perfluoroalkyl carboxylic acids by soils. <i>Chemosphere</i> , 2021 , 290, 133224	8.4	1
11	Global syndromes induced by changes in solutes of the world's large rivers. <i>Nature Communications</i> , 2021 , 12, 5940	17.4	1
10	Predicting crop root concentration factors of organic contaminants with machine learning models. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127437	12.8	1
9	Biochar amendment changed soil-bound fractions of silver nanoparticles and ions but not their uptake by radish at an environmentally-relevant concentration. <i>Biochar</i> , 2020 , 2, 307-317	10	1

8	Assessing Consumer Buy and Pay Preferences for Labeled Food Products with Statistical and Machine Learning Methods. <i>Journal of Food Protection</i> , 2021 , 84, 1560-1566	2.5	1
7	Exposure to trace levels of metals and fluoroquinolones increases inflammation and tumorigenesis risk of zebrafish embryos. <i>Environmental Science and Ecotechnology</i> , 2022 , 10, 100162	7.4	0
6	A comparative study on various indicators for evaluating soil health of three biochar materials application. <i>Journal of Cleaner Production</i> , 2022 , 343, 131085	10.3	0
5	NaCl salinity enhances tetracycline bioavailability to <i>Escherichia coli</i> on agar surfaces.. <i>Chemosphere</i> , 2022 , 302, 134921	8.4	0
4	Nano-goethite-mediated transformation of anthracene derivatives under low moisture conditions. <i>Environmental Science: Nano</i> , 2022 , 9, 289-301	7.1	
3	Control of <i>Phytophthora capsici</i> diseases in greenhouse squash by fast-flow filtration. <i>Acta Horticulturae</i> , 2020 , 247-256	0.3	
2	Fate and transport in environmental quality. <i>Journal of Environmental Quality</i> , 2021 , 50, 1282-1289	3.4	
1	Application of BiVO ₄ /Microalgae Combined Treatment to Remove High Concentration Mixture of Sulfamethazine and Sulfadiazine. <i>Water (Switzerland)</i> , 2022 , 14, 718	3	