

Wei Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nano-goethite-mediated transformation of anthracene derivatives under low moisture conditions. <i>Environmental Science: Nano</i> , 2022 , 9, 289-301	7.1	
114	Stomata facilitate foliar sorption of silver nanoparticles by Arabidopsis thaliana. <i>Environmental Pollution</i> , 2022 , 292, 118448	9.3	4
113	Predicting crop root concentration factors of organic contaminants with machine learning models. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127437	12.8	1
112	Application of BiVO ₄ /Microalgae Combined Treatment to Remove High Concentration Mixture of Sulfamethazine and Sulfadiazine. <i>Water (Switzerland)</i> , 2022 , 14, 718	3	
111	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
110	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
109	NaCl salinity enhances tetracycline bioavailability to Escherichia coli on agar surfaces.. <i>Chemosphere</i> , 2022 , 302, 134921	8.4	0
108	Fate and transport in environmental quality. <i>Journal of Environmental Quality</i> , 2021 , 50, 1282-1289	3.4	
107	Implication of cation-bridging interaction contribution to sorption of perfluoroalkyl carboxylic acids by soils.. <i>Chemosphere</i> , 2021 , 290, 133224	8.4	1
106	Global syndromes induced by changes in solutes of the world's large rivers. <i>Nature Communications</i> , 2021 , 12, 5940	17.4	1
105	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
104	Light modulates the effect of antibiotic norfloxacin on photosynthetic processes of Microcystis aeruginosa. <i>Aquatic Toxicology</i> , 2021 , 235, 105826	5.1	2
103	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
102	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
101	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
100	Comparing root concentration factors of antibiotics for lettuce (Lactuca sativa) measured in rhizosphere and bulk soils. <i>Chemosphere</i> , 2021 , 262, 127677	8.4	5
99	Uptake of cephalixin by lettuce, celery, and radish from water. <i>Chemosphere</i> , 2021 , 263, 127916	8.4	4

98	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
97	Species-dependent response of food crops to polystyrene nanoplastics and microplastics. <i>Science of the Total Environment</i> , 2021 , 796, 148750	10.2	11
96	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
95	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
94	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
93	Hydrogen Production from Urea Sewage on NiFe-Based Porous Electrocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	6
92	Bacterial foraging facilitates aggregation of Chlamydomonas microsphaera in an organic carbon source-limited aquatic environment. <i>Environmental Pollution</i> , 2020 , 259, 113924	9.3	7
91	Control of Phytophthora capsici diseases in greenhouse squash by fast-flow filtration. <i>Acta Horticulturae</i> , 2020 , 247-256	0.3	
90	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
89	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
88	Uptake and dissipation of metalaxyl-M, fludioxonil, cyantraniliprole and thiamethoxam in greenhouse chrysanthemum. <i>Environmental Pollution</i> , 2020 , 257, 113499	9.3	12
87	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
86	Ecotoxicological effects of sulfonamide on and its removal by the submerged plant Vallisneria natans (Lour.) Hara. <i>Water Research</i> , 2020 , 170, 115354	12.5	33
85	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
84	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
83	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
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	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

80	Chemical Aging Changed Aggregation Kinetics and Transport of Biochar Colloids. <i>Environmental Science & Technology</i> , 2019 , 53, 8136-8146	10.3	44
79	Next-Generation Multifunctional Carbon-Metal Nanohybrids for Energy and Environmental Applications. <i>Environmental Science & Technology</i> , 2019 , 53, 7265-7287	10.3	73
78	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
77	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
76	Organochlorinated pesticides expedite the enzymatic degradation of DNA. <i>Communications Biology</i> , 2019 , 2, 81	6.7	4
75	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
74	Size effect of polystyrene microplastics on sorption of phenanthrene and nitrobenzene. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 173, 331-338	7	111
73	Quantification and characterization of dissolved organic carbon from biochars. <i>Geoderma</i> , 2019 , 335, 161-169	6.7	74
72	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
71	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
70	Mechanistic study on uptake and transport of pharmaceuticals in lettuce from water. <i>Environment International</i> , 2019 , 131, 104976	12.9	48
69	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
68	Modulating cellular cytotoxicity and phototoxicity of fluorescent organic salts through counterion pairing. <i>Scientific Reports</i> , 2019 , 9, 15288	4.9	14
67	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
66	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
65	Interactions between nanoparticles and fractal surfaces. <i>Water Research</i> , 2019 , 151, 296-309	12.5	12
64	Insight into the distribution of pharmaceuticals in soil-water-plant systems. <i>Water Research</i> , 2019 , 152, 38-46	12.5	84
63	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

62	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
61	DNA Facilitates the Sorption of Polycyclic Aromatic Hydrocarbons on Montmorillonites. <i>Environmental Science & Technology</i> , 2018 , 52, 2694-2703	10.3	15
60	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
59	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
58	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
57	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
56	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
55	Advancing Soil Physics for Securing Food, Water, Soil and Ecosystem Services. <i>Vadose Zone Journal</i> , 2018 , 17, 1-7	2.7	3
54	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
53	Bioavailability of tetracycline to antibiotic resistant Escherichia coli in water-clay systems. <i>Environmental Pollution</i> , 2018 , 243, 1078-1086	9.3	11
52	Transcriptomic analysis of zebrafish (Danio rerio) embryos to assess integrated biotoxicity of Xitiaoxi River waters. <i>Environmental Pollution</i> , 2018 , 242, 42-53	9.3	6
51	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
50	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
49	Phytoavailability and mechanism of bound PAH residues in field contaminated soils. <i>Environmental Pollution</i> , 2017 , 222, 465-476	9.3	33
48	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
47	Bioavailability of Soil-Sorbed Tetracycline to Escherichia coli under Unsaturated Conditions. <i>Environmental Science & Technology</i> , 2017 , 51, 6165-6173	10.3	26
46	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
45	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

44	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
43	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
42	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
41	Sorption of Lincomycin by Manure-Derived Biochars from Water. <i>Journal of Environmental Quality</i> , 2016 , 45, 519-27	3.4	25
40	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
39	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
38	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
37	Can pore-clogging by ash explain post-fire runoff?. <i>International Journal of Wildland Fire</i> , 2016 , 25, 294	3.2	16
36	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
35	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
34	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
33	Reverse engineering of biochar. <i>Bioresource Technology</i> , 2015 , 183, 163-74	11	25
32	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
31	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
30	A coupled field study of subsurface fracture flow and colloid transport. <i>Journal of Hydrology</i> , 2015 , 524, 476-488	6	27
29	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
28	Effect of hydrofracking fluid on colloid transport in the unsaturated zone. <i>Environmental Science & Technology</i> , 2014 , 48, 8266-74	10.3	21
27	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

26	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
25	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
24	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
23	Effects of humic and fulvic acids on aggregation of aqu/nC60 nanoparticles. <i>Water Research</i> , 2013 , 47, 1793-802	12.5	77
22	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
21	A rapid screening technique for estimating nanoparticle transport in porous media. <i>Water Research</i> , 2013 , 47, 4086-94	12.5	23
20	Surfactant-mediated control of colloid pattern assembly and attachment strength in evaporating droplets. <i>Langmuir</i> , 2013 , 29, 1831-40	4	44
19	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
18	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
17	Colloid retention at the meniscus-wall contact line in an open microchannel. <i>Water Research</i> , 2012 , 46, 295-306	12.5	35
16	Fullerene nanoparticles exhibit greater retention in freshwater sediment than in model porous media. <i>Water Research</i> , 2012 , 46, 2992-3004	12.5	45
15	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
14	A review of colloid transport in fractured rocks. <i>Journal of Mountain Science</i> , 2012 , 9, 770-787	2.1	53
13	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
12	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
11	Nutrient transport within three vegetative treatment areas receiving silage bunker runoff. <i>Journal of Environmental Management</i> , 2011 , 92, 587-95	7.9	10
10	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
9	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

8	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
7	Transport and retention of biochar particles in porous media: effect of pH, ionic strength, and particle size. <i>Ecohydrology</i> , 2010 , 3, 497-508	2.5	79
6	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
5	The impact of biofilm-forming potential and tafi production on transport of environmental Salmonella through unsaturated porous media. <i>Biologia (Poland)</i> , 2009 , 64, 460-464	1.5	9
4	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
3	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
2	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
1	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