Jianying Shang

List of Publications by Year
in descending order

76 papers	2,692 citations	147801 31 h-index	189892 50 g-index
79 all docs	79 docs citations	79 times ranked	2627 citing authors

#	Article	IF	Citations
1	Comparison of different methods to measure contact angles of soil colloids. Journal of Colloid and Interface Science, 2008, 328, 299-307.	9.4	189
2	Goethite modified biochar as a multifunctional amendment for cationic Cd(II), anionic As(III), roxarsone, and phosphorus in soil and water. Journal of Cleaner Production, 2020, 247, 119579.	9.3	141
3	Effects of CuO nanoparticles on insecticidal activity and phytotoxicity in conventional and transgenic cotton. Chemosphere, 2016, 144, 661-670.	8.2	138
4	Impact of flow rate, water content, and capillary forces on in situ colloid mobilization during infiltration in unsaturated sediments. Water Resources Research, 2008, 44, .	4.2	115
5	Goethite-modified biochar ameliorates the growth of rice (Oryza sativa L.) plants by suppressing Cd and As-induced oxidative stress in Cd and As co-contaminated paddy soil. Science of the Total Environment, 2020, 717, 137086.	8.0	106
6	Contributions of Nanoscale Roughness to Anomalous Colloid Retention and Stability Behavior. Langmuir, 2017, 33, 10094-10105.	3.5	94
7	Chemical Aging Changed Aggregation Kinetics and Transport of Biochar Colloids. Environmental Science & Technology, 2019, 53, 8136-8146.	10.0	91
8	Colloidal stability and aggregation kinetics of biochar colloids: Effects of pyrolysis temperature, cation type, and humic acid concentrations. Science of the Total Environment, 2019, 658, 1306-1315.	8.0	86
9	Mechanism of uranium release from uranium mill tailings under long-term exposure to simulated acid rain: Geochemical evidence and environmental implication. Environmental Pollution, 2019, 244, 174-181.	7.5	86
10	Contact angles of aluminosilicate clays as affected by relative humidity and exchangeable cations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 353, 1-9.	4.7	66
11	Simultaneous removal of Cd(II) and As(III) from co-contaminated aqueous solution by Î±-FeOOH modified biochar. Biochar, 2020, 2, 81-92.	12.6	63
12	Force measurements between particles and the airâ€“water interface: Implications for particle mobilization in unsaturated porous media. Water Resources Research, 2009, 45, .	4.2	60
13	Effect of Grain Size on Uranium(VI) Surface Complexation Kinetics and Adsorption Additivity. Environmental Science & Technology, 2011, 45, 6025-6031.	10.0	60
14	Effect of naphthalene on transport and retention of biochar colloids through saturated porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 530, 146-154.	4.7	59
15	Surface and colloid properties of biochar and implications for transport in porous media. Critical Reviews in Environmental Science and Technology, 2020, 50, 2484-2522.	12.8	56
16	Transport of biochar colloids in saturated porous media in the presence of humic substances or proteins. Environmental Pollution, 2019, 246, 855-863.	7.5	55
17	Green sustainable and highly efficient hematite nanoparticles modified biochar-clay granular composite for Cr(VI) removal and related mechanism. Journal of Cleaner Production, 2020, 276, 123009.	9.3	55
18	Scale-dependent rates of uranyl surface complexation reaction in sediments. Geochimica Et Cosmochimica Acta, 2013, 105, 326-341.	3.9	54

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19	Antagonistic effect of humic acid and naphthalene on biochar colloid transport in saturated porous media. Chemosphere, 2017, 189, 556-564.	8.2	54
20	Effect of bovine serum albumin on stability and transport of kaolinite colloid. Water Research, 2019, 155, 204-213.	11.3	53
21	Goethite-modified biochar restricts the mobility and transfer of cadmium in soil-rice system. Chemosphere, 2020, 242, 125152.	8.2	51
22	Uranium (VI) transport in saturated heterogeneous media: Influence of kaolinite and humic acid. Environmental Pollution, 2018, 240, 219-226.	7.5	49
23	Effect of physicochemical factors on transport and retention of graphene oxide in saturated media. Environmental Pollution, 2018, 236, 168-176.	7.5	47
24	Multispecies diffusion models: A study of uranyl species diffusion. Water Resources Research, 2011, 47, .	4.2	43
25	Synthesis of novel mesoporous carbon nanoparticles and their phytotoxicity to rice (Oryza sativa L.). Journal of Saudi Chemical Society, 2019, 23, 75-82.	5.2	40
26	Critical insight and indication on particle size effects towards uranium release from uranium mill tailings: Geochemical and mineralogical aspects. Chemosphere, 2020, 250, 126315.	8.2	37
27	Toxicity and bio-effects of CuO nanoparticles on transgenic Ipt-cotton. Journal of Plant Interactions, 2016, 11, 108-116.	2.1	36
28	Effect of Biochar Application on Hydraulic Properties of Sandy Soil under Dry and Wet Conditions. Vadose Zone Journal, 2018, 17, 1-8.	2.2	36
29	Kinetics and Mechanisms of Protein Adsorption and Conformational Change on Hematite Particles. Environmental Science & Technology, 2019, 53, 10157-10165.	10.0	36
30	Effect of sulfamethazine on surface characteristics of biochar colloids and its implications for transport in porous media. Environmental Pollution, 2020, 256, 113482.	7.5	36
31	Effect of Subgrid Heterogeneity on Scaling Geochemical and Biogeochemical Reactions: A Case of U(VI) Desorption. Environmental Science & Technology, 2014, 48, 1745-1752.	10.0	34
32	Goethite modified biochar simultaneously mitigates the arsenic and cadmium accumulation in paddy rice (Oryza sativa) L. Environmental Research, 2022, 206, 112238.	7.5	34
33	Nitrate bioreduction in redox-variable low permeability sediments. Science of the Total Environment, 2016, 539, 185-195.	8.0	32
34	Elucidating the impact of goethite-modified biochar on arsenic mobility, bioaccumulation in paddy rice (Oryza sativa L.) along with soil enzyme activities. Chemical Engineering Research and Design, 2022, 160, 958-967.	5.6	32
35	Transport and retention of engineered nanoporous particles in porous media: Effects of concentration and flow dynamics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 89-98.	4.7	30
36	Arsenic removal via a novel hydrochar from livestock waste co-activated with thiourea and Î³-Fe2O3 nanoparticles. Journal of Hazardous Materials, 2021, 419, 126457.	12.4	28

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37	Effects of low molecular weight organic acids on aggregation behavior of biochar colloids at acid and neutral conditions. Biochar, 2022, 4, 1.	12.6	26
38	In-Situ Measurements of Engineered Nanoporous Particle Transport in Saturated Porous Media. Environmental Science & Technology, 2010, 44, 8190-8195.	10.0	25
39	Ferrihydrite Transformation Impacted by Coprecipitation of Phytic Acid. Environmental Science & Technology, 2020, 54, 8837-8847.	10.0	25
40	Coating of silica sand with aluminosilicate clay. Journal of Colloid and Interface Science, 2006, 294, 155-164.	9.4	24
41	A Unified Multiscale Model for Pore-ScaleFlow Simulations in Soils. Soil Science Society of America Journal, 2014, 78, 108-118.	2.2	23
42	Graphene oxide-facilitated uranium transport and release in saturated medium: Effect of ionic strength and medium structure. Environmental Pollution, 2019, 247, 668-677.	7.5	20
43	Nitrate attenuation in low-permeability sediments based on isotopic and microbial analyses. Science of the Total Environment, 2018, 618, 15-25.	8.0	19
44	Investigation of U(VI) Adsorption in Quartzâ€“Chlorite Mineral Mixtures. Environmental Science & Technology, 2014, 48, 7766-7773.	10.0	16
45	Accumulation of sulfamethazine and ciprofloxacin on grain surface decreases the transport of biochar colloids in saturated porous media. Journal of Hazardous Materials, 2021, 417, 125908.	12.4	16
46	Long-term kinetics of uranyl desorption from sediments under advective conditions. Water Resources Research, 2014, 50, 855-870.	4.2	14
47	Structural effects on the catalytic activity of carbon-supported magnetite nanocomposites in heterogeneous Fenton-like reactions. RSC Advances, 2018, 8, 16193-16201.	3.6	14
48	Microscale water distribution and its effects on organic carbon decomposition in unsaturated soils. Science of the Total Environment, 2018, 644, 1036-1043.	8.0	12
49	Nanoscale titanium dioxide (nTiO2) aggregation and transport in the co-presence of dissolved phosphate, illite colloid, and Fe oxyhydroxide coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123560.	4.7	12
50	Fluorescent Functionalized Mesoporous Silica for Radioactive Material Extraction. Separation Science and Technology, 2012, 47, 1507-1513.	2.5	11
51	Release of colloidal biochar during transient chemical conditions: The humic acid effect. Environmental Pollution, 2020, 260, 114068.	7.5	11
52	Short-term biochar effect on soil physicochemical and microbiological properties of a degraded alpine grassland. Pedosphere, 2022, 32, 426-437.	4.0	11
53	Influence of dissolved organic matter, kaolinite, and iron oxides on aggregation and transport of biochar colloids in aqueous and soil environments. Chemosphere, 2022, 306, 135555.	8.2	11
54	Effects of ionic strength, electrolyte type, pH, and flow rate on transport and retention of atmospheric deposition particles in saturated porous media. Journal of Soils and Sediments, 2018, 18, 1066-1075.	3.0	10

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55	Distinct interactions of pig and cow manure-derived colloids with TiO2 nanoparticles and their impact on stability and transport. Journal of Hazardous Materials, 2021, 416, 125910.	12.4	10
56	PAHs sorption to biochar colloids changes their mobility over time. Journal of Hydrology, 2021, 603, 126839.	5.4	10
57	Aggregation kinetics of biochar nanoparticles in aqueous environment: Interplays of anion type and bovine serum albumin. Science of the Total Environment, 2022, 833, 155148.	8.0	10
58	Estimation of soil water content at permanent wilting point using hygroscopic water content. European Journal of Soil Science, 2020, 71, 392-398.	3.9	8
59	Hydrogen peroxide and high-temperature heating differently alter the stability and aggregation of black soil colloids. Chemosphere, 2022, 287, 132018.	8.2	8
60	The role of Fe oxyhydroxide coating, illite clay, and peat moss in nanoscale titanium dioxide (nTiO2) retention and transport in geochemically heterogeneous media. Environmental Pollution, 2020, 257, 113625.	7.5	7
61	Estimation of soil specific surface area from adsorbed soil water content. European Journal of Soil Science, 2021, 72, 1718-1725.	3.9	7
62	Advancing Soil Physics for Securing Food, Water, Soil and Ecosystem Services. Vadose Zone Journal, 2018, 17, 1-7.	2.2	6
63	A new model for soil water vapor sorption isotherms considering adsorption and condensation. Soil Science Society of America Journal, 2021, 85, 195-206.	2.2	6
64	Effect of phytic acid and morphology on Fe (oxyhydr)oxide transport under saturated flow condition. Journal of Hazardous Materials, 2022, 424, 127659.	12.4	6
65	A Fluorescence-Based Method for Rapid and Direct Determination of Polybrominated Diphenyl Ethers in Water. Journal of Analytical Methods in Chemistry, 2015, 2015, 1-10.	1.6	5
66	Humic acid induced weak attachment of fullerene nC60 nanoparticles and subsequent detachment upon reduction of solution ionic strength in saturated porous media. Journal of Contaminant Hydrology, 2020, 231, 103630.	3.3	5
67	Cation exchange capacity and soil pore system play key roles in water vapour sorption. Geoderma, 2022, 424, 116017.	5.1	5
68	Role of nonspherical DLVO and capillary forces in the transport of 2D delaminated Ti3C2Tx MXene in saturated and unsaturated porous media. Environmental Research, 2021, 200, 111451.	7.5	4
69	Anomalous Attachment Behavior of Nanoparticles inside Narrow Channels. Vadose Zone Journal, 2018, 17, 1-9.	2.2	3
70	Spatial patterns in soil physicochemical and microbiological properties in a grassland adjacent to a newly built lake. MicrobiologyOpen, 2019, 8, e912.	3.0	3
71	Coupled effect of flow velocity and structural heterogeneity on transport and release of kaolinite colloids in saturated porous media. Environmental Science and Pollution Research, 2020, 27, 35065-35077.	5.3	3
72	Reversing the order of changes in environmental conditions alters aggregation behavior of hematite nanoparticles. Environmental Science: Nano, 0, , .	4.3	2

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73	Coupled impact of proteins with different molecular weights and surface charges on TiO₂ mobility. Environmental Science: Nano, 2022, 9, 2773-2787.	4.3	1
74	Combined effects of ferrihydrite coating and ionic type on the transport of compost-derived dissolved organic matter in saturated porous media. Environmental Pollution, 2022, 307, 119501.	7.5	1
75	A simple method for estimating the optimum water content for tillage. European Journal of Soil Science, 0, , .	3.9	0
76	A<i>Î²</i>-Like Peptide Displayed on Bacteriophage T7 Catalyzes Chromate and Uranyl Reduction. Journal of Environmental Protection, 2013, 04, 857-868.	0.7	0