

Deng-jun Wang

List of Publications by Year in descending order

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68
papers

3,482
citations

126858

33
h-index

143943

57
g-index

72
all docs

72
docs citations

72
times ranked

2901
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport of Biochar Particles in Saturated Granular Media: Effects of Pyrolysis Temperature and Particle Size. <i>Environmental Science & Technology</i> , 2013, 47, 821-828.	4.6	295
2	Nano-enabled pesticides for sustainable agriculture and global food security. <i>Nature Nanotechnology</i> , 2022, 17, 347-360.	15.6	219
3	Humic Acid Facilitates the Transport of ARS-Labeled Hydroxyapatite Nanoparticles in Iron Oxyhydroxide-Coated Sand. <i>Environmental Science & Technology</i> , 2012, 46, 2738-2745.	4.6	172
4	Antagonistic Effects of Humic Acid and Iron Oxyhydroxide Grain-Coating on Biochar Nanoparticle Transport in Saturated Sand. <i>Environmental Science & Technology</i> , 2013, 47, 5154-5161.	4.6	168
5	Heterogeneous activation of persulfate by reduced graphene oxideâ€“elemental silver/magnetite nanohybrids for the oxidative degradation of pharmaceuticals and endocrine disrupting compounds in water. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 91-99.	10.8	144
6	Transport and retention of biochar nanoparticles in a paddy soil under environmentally-relevant solution chemistry conditions. <i>Environmental Pollution</i> , 2017, 230, 540-549.	3.7	138
7	Potential utility of graphene-based nano spinel ferrites as adsorbent and photocatalyst for removing organic/inorganic contaminants from aqueous solutions: A mini review. <i>Chemosphere</i> , 2019, 221, 392-402.	4.2	131
8	Facilitated transport of Cu with hydroxyapatite nanoparticles in saturated sand: Effects of solution ionic strength and composition. <i>Water Research</i> , 2011, 45, 5905-5915.	5.3	109
9	Next-Generation Multifunctional Carbonâ€“Metal Nanohybrids for Energy and Environmental Applications. <i>Environmental Science & Technology</i> , 2019, 53, 7265-7287.	4.6	109
10	Modeling the transport of TiO ₂ nanoparticle aggregates in saturated and unsaturated granular media: Effects of ionic strength and pH. <i>Water Research</i> , 2013, 47, 1399-1408.	5.3	97
11	Effect of Size-Selective Retention on the Cotransport of Hydroxyapatite and Goethite Nanoparticles in Saturated Porous Media. <i>Environmental Science & Technology</i> , 2015, 49, 8461-8470.	4.6	93
12	Transport and re-entrainment of soil colloids in saturated packed column: effects of pH and ionic strength. <i>Journal of Soils and Sediments</i> , 2011, 11, 491-503.	1.5	89
13	Critical review of microplastics removal from the environment. <i>Chemosphere</i> , 2022, 293, 133557.	4.2	89
14	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
15	Transport and retention of silver nanoparticles in soil: Effects of input concentration, particle size and surface coating. <i>Science of the Total Environment</i> , 2019, 648, 102-108.	3.9	68
16	Accelerated photocatalytic degradation of organic pollutants over carbonate-rich lanthanum-substituted zinc spinel ferrite assembled reduced graphene oxide by ultraviolet (UV)-activated persulfate. <i>Chemical Engineering Journal</i> , 2020, 393, 124733.	6.6	67
17	Facilitated transport of cadmium by biochar-Fe ₃ O ₄ nanocomposites in water-saturated natural soils. <i>Science of the Total Environment</i> , 2019, 684, 265-275.	3.9	65
18	Hyperexponential and nonmonotonic retention of polyvinylpyrrolidone-coated silver nanoparticles in an Ultisol. <i>Journal of Contaminant Hydrology</i> , 2014, 164, 35-48.	1.6	61

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19	Evaluation of water quality in surface water and shallow groundwater: a case study of a rare earth mining area in southern Jiangxi Province, China. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 24.	1.3	61
20	Effect of reduced humic acid on the transport of ferrihydrite nanoparticles under anoxic conditions. <i>Water Research</i> , 2017, 109, 347-357.	5.3	61
21	Role of solution chemistry in the retention and release of graphene oxide nanomaterials in uncoated and iron oxide-coated sand. <i>Science of the Total Environment</i> , 2017, 579, 776-785.	3.9	55
22	Transport behavior of humic acid-modified nano-hydroxyapatite in saturated packed column: Effects of Cu, ionic strength, and ionic composition. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 398-407.	5.0	54
23	Laboratory assessment of the mobility of water-dispersed engineered nanoparticles in a red soil (Ultisol). <i>Journal of Hydrology</i> , 2014, 519, 1677-1687.	2.3	51
24	Evaluation of the colloidal stability and adsorption performance of reduced graphene oxide ⁺ elemental silver/magnetite nanohybrids for selected toxic heavy metals in aqueous solutions. <i>Applied Surface Science</i> , 2019, 471, 8-17.	3.1	51
25	Transport and Retention of Polyvinylpyrrolidone ⁺ Coated Silver Nanoparticles in Natural Soils. <i>Vadose Zone Journal</i> , 2015, 14, 1-13.	1.3	48
26	Co-transport of U(VI) and akaganite colloids in water-saturated porous media: Role of U(VI) concentration, pH and ionic strength. <i>Water Research</i> , 2018, 147, 350-361.	5.3	48
27	Transport of ARS-labeled hydroxyapatite nanoparticles in saturated granular media is influenced by surface charge variability even in the presence of humic acid. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 170-176.	6.5	43
28	Effects of Escherichia coli and phosphate on the transport of titanium dioxide nanoparticles in heterogeneous porous media. <i>Water Research</i> , 2018, 146, 264-274.	5.3	43
29	Effects of low-molecular-weight organic acids on the dissolution of hydroxyapatite nanoparticles. <i>Environmental Science: Nano</i> , 2016, 3, 768-779.	2.2	40
30	Stability of co-existing ZnO and TiO ₂ nanomaterials in natural water: Aggregation and sedimentation mechanisms. <i>Chemosphere</i> , 2017, 184, 1125-1133.	4.2	40
31	Biochar effectively inhibits the horizontal transfer of antibiotic resistance genes via transformation. <i>Journal of Hazardous Materials</i> , 2022, 423, 127150.	6.5	40
32	Facilitated Transport of Copper with Hydroxyapatite Nanoparticles in Saturated Sand. <i>Soil Science Society of America Journal</i> , 2012, 76, 375-388.	1.2	39
33	Cotransport of hydroxyapatite nanoparticles and hematite colloids in saturated porous media: Mechanistic insights from mathematical modeling and phosphate oxygen isotope fractionation. <i>Journal of Contaminant Hydrology</i> , 2015, 182, 194-209.	1.6	37
34	Transport of fluorescently labeled hydroxyapatite nanoparticles in saturated granular media at environmentally relevant concentrations of surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 457, 58-66.	2.3	34
35	Impact of Redox Reactions on Colloid Transport in Saturated Porous Media: An Example of Ferrihydrite Colloids Transport in the Presence of Sulfide. <i>Environmental Science & Technology</i> , 2016, 50, 10968-10977.	4.6	31
36	Elucidating the Role of Sulfide on the Stability of Ferrihydrite Colloids under Anoxic Conditions. <i>Environmental Science & Technology</i> , 2019, 53, 4173-4184.	4.6	31

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37	Carboxymethylcellulose Mediates the Transport of Carbon Nanotube-Magnetite Nanohybrid Aggregates in Water-Saturated Porous Media. <i>Environmental Science & Technology</i> , 2017, 51, 12405-12415.	4.6	30
38	Inhibited transport of graphene oxide nanoparticles in granular quartz sand coated with <i>Bacillus subtilis</i> and <i>Pseudomonas putida</i> biofilms. <i>Chemosphere</i> , 2017, 169, 1-8.	4.2	30
39	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
40	Release and stability of water dispersible biochar colloids in aquatic environments: Effects of pyrolysis temperature, particle size, and solution chemistry. <i>Environmental Pollution</i> , 2020, 260, 114037.	3.7	28
41	Small-scale interaction of iron and phosphorus in flooded soils with rice growth. <i>Science of the Total Environment</i> , 2019, 669, 911-919.	3.9	26
42	Interactions of extracellular DNA with aromatized biochar and protection against degradation by DNase I. <i>Journal of Environmental Sciences</i> , 2021, 101, 205-216.	3.2	26
43	Synergistic effects of phosphorus and humic acid on the transport of anatase titanium dioxide nanoparticles in water-saturated porous media. <i>Environmental Pollution</i> , 2018, 243, 1368-1375.	3.7	22
44	Biochar nanoparticles with different pyrolysis temperatures mediate cadmium transport in water-saturated soils: Effects of ionic strength and humic acid. <i>Science of the Total Environment</i> , 2022, 806, 150668.	3.9	20
45	Modeling the Transport of the "New-Horizon" Reduced Graphene Oxide-Metal Oxide Nanohybrids in Water-Saturated Porous Media. <i>Environmental Science & Technology</i> , 2018, 52, 4610-4622.	4.6	19
46	Transport and retention patterns of fragmental microplastics in saturated and unsaturated porous media: A real-time pore-scale visualization. <i>Water Research</i> , 2022, 214, 118195.	5.3	19
47	Detachment of fullerene nC60 nanoparticles in saturated porous media under flow/stop-flow conditions: Column experiments and mechanistic explanations. <i>Environmental Pollution</i> , 2016, 213, 698-709.	3.7	18
48	Facilitated transport of nTiO ₂ -kaolin aggregates by bacteria and phosphate in water-saturated quartz sand. <i>Science of the Total Environment</i> , 2020, 713, 136589.	3.9	18
49	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
50	Heteroaggregation and dissolution of silver nanoparticles by iron oxide colloids under environmentally relevant conditions. <i>Environmental Science: Nano</i> , 2019, 6, 195-206.	2.2	16
51	Aggregation of reduced graphene oxide and its nanohybrids with magnetite and elemental silver under environmentally relevant conditions. <i>Journal of Nanoparticle Research</i> , 2018, 20, 93.	0.8	15
52	Differential antimicrobial activity of silver nanoparticles to bacteria <i>Bacillus subtilis</i> and <i>Escherichia coli</i> , and toxicity to crop plant <i>Zea mays</i> and beneficial <i>B. subtilis</i> -inoculated <i>Z. mays</i> . <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	14
53	Trophic transfer of Cd from duckweed (<i>Lemna minor</i> L.) to tilapia (<i>Oreochromis</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.2	14
54	Recent Developments in Engineered Nanomaterials for Water Treatment and Environmental Remediation. , 2018, , 849-882.		12

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55	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
56	Deposition and release of carboxylated graphene in saturated porous media: Effect of transient solution chemistry. <i>Chemosphere</i> , 2019, 235, 643-650.	4.2	10
57	Formation, aggregation, and transport of NOM-Cr(III) colloids in aquatic environments. <i>Environmental Science: Nano</i> , 2022, 9, 1133-1145.	2.2	10
58	Calcium and magnesium enhance arsenate rhizotoxicity and uptake in <i>Triticum aestivum</i> . <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1642-1648.	2.2	9
59	Surface heterogeneity mediated transport of hydrochar nanoparticles in heterogeneous porous media. <i>Environmental Science and Pollution Research</i> , 2020, 27, 32842-32855.	2.7	9
60	Transport of perfluorooctanoic acid in unsaturated porous media mediated by SDBS. <i>Journal of Hydrology</i> , 2022, 607, 127479.	2.3	9
61	Phosphate and humic acid inhibit corrosion of green-synthesized nano-iron particles to remove Cr(VI) and facilitate their cotransport. <i>Chemical Engineering Journal</i> , 2022, 450, 136415.	6.6	9
62	Characterizing surface electrochemical properties of simulated bulk soil <i>in situ</i> by streaming potential measurements. <i>European Journal of Soil Science</i> , 2019, 70, 1063-1072.	1.8	8
63	Loading and Bioavailability of Colloidal Phosphorus in the Estuarine Gradient of the Deer Creek-Susquehanna River Transect in the Chesapeake Bay. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3717-3726.	1.3	8
64	Cotransport of Cu with Graphene Oxide in Saturated Porous Media with Varying Degrees of Geochemical Heterogeneity. <i>Water (Switzerland)</i> , 2020, 12, 444.	1.2	5
65	Observed equilibrium partition and second-order kinetic interaction of quantum dot nanoparticles in saturated porous media. <i>Journal of Contaminant Hydrology</i> , 2021, 240, 103799.	1.6	5
66	A mechanistic study of ciprofloxacin adsorption by goethite in the presence of silver and titanium dioxide nanoparticles. <i>Journal of Environmental Sciences</i> , 2022, 118, 46-56.	3.2	4
67	Quantification of the redox properties of microplastics and their effect on arsenite oxidation. <i>Fundamental Research</i> , 2023, 3, 777-785.	1.6	4
68	Precipitant Effects on Aggregates Structure of Asphaltene and Their Implications for Groundwater Remediation. <i>Water (Switzerland)</i> , 2020, 12, 2116.	1.2	2