Chongxuan Liu

List of Publications by Year
in descending order

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179 papers	8,974 citations	30070 54 h-index	54911 84 g-index
180 all docs	180 docs citations	180 times ranked	7095 citing authors

#	Article	IF	Citations
1	Sorption of Cs+ to micaceous subsurface sediments from the Hanford site, USA. Geochimica Et Cosmochimica Acta, 2002, 66, 193-211.	3.9	298
2	Reduction kinetics of Fe(III), Co(III), U(VI), Cr(VI), and Tc(VII) in cultures of dissimilatory metal-reducing bacteria. Biotechnology and Bioengineering, 2002, 80, 637-649.	3.3	293
3	Kinetic Analysis of the Bacterial Reduction of Goethite. Environmental Science & Technology, 2001, 35, 2482-2490.	10.0	199
4	Identification and Characterization of MtoA: A Decaheme c-Type Cytochrome of the Neutrophilic Fe(II)-Oxidizing Bacterium Sideroxydans lithotrophicus ES-1. Frontiers in Microbiology, 2012, 3, 37.	3.5	186
5	Cr(VI) Removal from Aqueous Solution by Activated Carbon Coated with Quaternized Poly(4-vinylpyridine). Environmental Science & Technology, 2007, 41, 4748-4753.	10.0	185
6	Reduction of TcO4â¯ by sediment-associated biogenic Fe(II). Geochimica Et Cosmochimica Acta, 2004, 68, 3171-3187.	3.9	184
7	Influence of Mn oxides on the reduction of uranium(VI) by the metal-reducing bacterium Shewanella putrefaciens. Geochimica Et Cosmochimica Acta, 2002, 66, 3247-3262.	3.9	170
8	Cryogenic Laser Induced Fluorescence Characterization of U(VI) in Hanford Vadose Zone Pore Waters. Environmental Science & Technology, 2004, 38, 5591-5597.	10.0	164
9	Reduction of pertechnetate [Tc(VII)] by aqueous Fe(II) and the nature of solid phase redox products. Geochimica Et Cosmochimica Acta, 2007, 71, 2137-2157.	3.9	154
10	Uranium(VI) Removal by Nanoscale Zerovalent Iron in Anoxic Batch Systems. Environmental Science & Technology, 2010, 44, 7783-7789.	10.0	140
11	Kinetic Desorption and Sorption of U(VI) during Reactive Transport in a Contaminated Hanford Sediment. Environmental Science & Technology, 2005, 39, 3157-3165.	10.0	137
12	Influence of Calcite and Dissolved Calcium on Uranium(VI) Sorption to a Hanford Subsurface Sediment. Environmental Science & Technology, 2005, 39, 7949-7955.	10.0	137
13	Influence of biogenic Fe(II) on the extent of microbial reduction of Fe(III) in clay minerals nontronite, illite, and chlorite. Geochimica Et Cosmochimica Acta, 2007, 71, 1145-1158.	3.9	137
14	Microbial Reduction of Fe(III) and Sorption/Precipitation of Fe(II) onShewanella putrefaciensStrain CN32. Environmental Science & Technology, 2001, 35, 1385-1393.	10.0	136
15	Fluorescence spectroscopy of U(VI)-silicates and U(VI)-contaminated Hanford sediment. Geochimica Et Cosmochimica Acta, 2005, 69, 1391-1403.	3.9	136
16	Persistence of uranium groundwater plumes: Contrasting mechanisms at two DOE sites in the groundwaterâ€“river interaction zone. Journal of Contaminant Hydrology, 2013, 147, 45-72.	3.3	136
17	Molecular Simulations of Water and Ion Diffusion in Nanosized Mineral Fractures. Environmental Science & Technology, 2009, 43, 777-782.	10.0	135
18	Chemodiversity of Soil Dissolved Organic Matter. Environmental Science & Technology, 2020, 54, 6174-6184.	10.0	133

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19	Bioreduction of Fe-bearing clay minerals and their reactivity toward pertechnetate (Tc-99). Geochimica Et Cosmochimica Acta, 2011, 75, 5229-5246.	3.9	128
20	Back Diffusion of Chlorinated Solvent Contaminants from a Natural Aquitard to a Remediated Aquifer Under Well-Controlled Field Conditions: Predictions and Measurements. Ground Water, 2002, 40, 175-184.	1.3	126
21	A moisture function of soil heterotrophic respiration that incorporates microscale processes. Nature Communications, 2018, 9, 2562.	12.8	124
22	Scaleâ€dependent desorption of uranium from contaminated subsurface sediments. Water Resources Research, 2008, 44, .	4.2	123
23	Desorption kinetics of radiocesium from subsurface sediments at Hanford Site, USA. Geochimica Et Cosmochimica Acta, 2003, 67, 2893-2912.	3.9	120
24	Dissolution of uranyl microprecipitates in subsurface sediments at Hanford Site, USA. Geochimica Et Cosmochimica Acta, 2004, 68, 4519-4537.	3.9	110
25	Molecular simulation of the diffusion of uranyl carbonate species in aqueous solution. Geochimica Et Cosmochimica Acta, 2010, 74, 4937-4952.	3.9	109
26	Reduction and long-term immobilization of technetium by Fe(II) associated with clay mineral nontronite. Chemical Geology, 2009, 264, 127-138.	3.3	108
27	Application of inverse methods to contaminant source identification from aquitard diffusion profiles at Dover AFB, Delaware. Water Resources Research, 1999, 35, 1975-1985.	4.2	98
28	Dissimilatory bacterial reduction of Al-substituted goethite in subsurface sediments. Geochimica Et Cosmochimica Acta, 2001, 65, 2913-2924.	3.9	98
29	Kinetics of Reduction of Fe(III) Complexes by Outer Membrane Cytochromes MtrC and OmcA ofShewanella oneidensisMR-1. Applied and Environmental Microbiology, 2008, 74, 6746-6755.	3.1	89
30	Kinetics of Uranium(VI) Desorption from Contaminated Sediments: Effect of Geochemical Conditions and Model Evaluation. Environmental Science & Technology, 2009, 43, 6560-6566.	10.0	89
31	Shifts in pore connectivity from precipitation versus groundwater rewetting increases soil carbon loss after drought. Nature Communications, 2017, 8, 1335.	12.8	88
32	A diffusion-based interpretation of tetrachloroethene and trichloroethene concentration profiles in a groundwater aquitard. Water Resources Research, 1997, 33, 2741-2757.	4.2	83
33	Microscale controls on the fate of contaminant uranium in the vadose zone, Hanford Site, Washington. Geochimica Et Cosmochimica Acta, 2006, 70, 1873-1887.	3.9	82
34	Kinetics of Reductive Dissolution of Hematite by Bioreduced Anthraquinone-2,6-disulfonate. Environmental Science & Technology, 2007, 41, 7730-7735.	10.0	80
35	Effect of Water Chemistry and Hydrodynamics on Nitrogen Transformation Activity and Microbial Community Functional Potential in Hyporheic Zone Sediment Columns. Environmental Science & Technology, 2017, 51, 4877-4886.	10.0	79
36	Internal Domains of Natural Porous Media Revealed: Critical Locations for Transport, Storage, and Chemical Reaction. Environmental Science & Technology, 2016, 50, 2811-2829.	10.0	76

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37	Hydrogenaseâ€•and outer membrane câ€type cytochromeâ€facilitated reduction of technetium(VII) by Shewanella oneidensis MRâ€1. Environmental Microbiology, 2008, 10, 125-136.	3.8	74
38	Contamination profile of antibiotic resistance genes in ground water in comparison with surface water. Science of the Total Environment, 2020, 715, 136975.	8.0	73
39	Uncertainties of Monod Kinetic Parameters Nonlinearly Estimated from Batch Experiments. Environmental Science & Technology, 2001, 35, 133-141.	10.0	72
40	Influence of electron donor/acceptor concentrations on hydrous ferric oxide (HFO) bioreduction. Biodegradation, 2003, 14, 91-103.	3.0	69
41	Molecular dynamics simulations of the orthoclase (001)- and (010)-water interfaces. Geochimica Et Cosmochimica Acta, 2008, 72, 1481-1497.	3.9	68
42	Transformation of heavy metal speciation during sludge drying: Mechanistic insights. Journal of Hazardous Materials, 2014, 265, 96-103.	12.4	68
43	Aerobic composting as an effective cow manure management strategy for reducing the dissemination of antibiotic resistance genes: An integrated meta-omics study. Journal of Hazardous Materials, 2020, 386, 121895.	12.4	68
44	Modeling the Inhibition of the Bacterial Reduction of U(VI) by Î²-MnO2(s). Environmental Science & Technology, 2002, 36, 1452-1459.	10.0	67
45	Effect of Temperature on Cs+Sorption and Desorption in Subsurface Sediments at the Hanford Site, U.S.A.. Environmental Science & Technology, 2003, 37, 2640-2645.	10.0	66
46	Analytical modeling of diffusion-limited contamination and decontamination in a two-layer porous medium. Advances in Water Resources, 1998, 21, 297-313.	3.8	65
47	Molecular Dynamics Simulations of Uranyl and Uranyl Carbonate Adsorption at Aluminosilicate Surfaces. Environmental Science & Technology, 2014, 48, 3899-3907.	10.0	65
48	Formation and stability of NOM-Mn(III) colloids in aquatic environments. Water Research, 2019, 149, 190-201.	11.3	64
49	Use of the generalized integral transform method for solving equations of solute transport in porous media. Advances in Water Resources, 2000, 23, 483-492.	3.8	60
50	A cation exchange model to describe Cs+ sorption at high ionic strength in subsurface sediments at Hanford site, USA. Journal of Contaminant Hydrology, 2004, 68, 217-238.	3.3	60
51	Effect of Grain Size on Uranium(VI) Surface Complexation Kinetics and Adsorption Additivity. Environmental Science & Technology, 2011, 45, 6025-6031.	10.0	60
52	Soil Respiration and Bacterial Structure and Function after 17 Years of a Reciprocal Soil Transplant Experiment. PLoS ONE, 2016, 11, e0150599.	2.5	60
53	Oxidative Remobilization of Biogenic Uranium(IV) Precipitates. Journal of Environmental Quality, 2005, 34, 1763-1771.	2.0	59
54	Arsenic speciation in aquifer sediment under varying groundwater regime and redox conditions at Jianghan Plain of Central China. Science of the Total Environment, 2017, 607-608, 992-1000.	8.0	56

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55	Reduced NOM triggered rapid Cr(VI) reduction and formation of NOM-Cr(III) colloids in anoxic environments. Water Research, 2020, 181, 115923.	11.3	56
56	Diffusion and Adsorption of Uranyl Carbonate Species in Nanosized Mineral Fractures. Environmental Science & Technology, 2012, 46, 1632-1640.	10.0	55
57	Title is missing!. Transport in Porous Media, 1998, 30, 25-43.	2.6	54
58	Oxidative dissolution potential of biogenic and abiogenic TcO2 in subsurface sediments. Geochimica Et Cosmochimica Acta, 2009, 73, 2299-2313.	3.9	54
59	Scale-dependent rates of uranyl surface complexation reaction in sediments. Geochimica Et Cosmochimica Acta, 2013, 105, 326-341.	3.9	54
60	Pore-scale investigation on the response of heterotrophic respiration to moisture conditions in heterogeneous soils. Biogeochemistry, 2016, 131, 121-134.	3.5	54
61	Structure, Kinetics, and Thermodynamics of the Aqueous Uranyl(VI) Cation. Journal of Physical Chemistry A, 2013, 117, 6421-6432.	2.5	52
62	Profiling microbial communities in a watershed undergoing intensive anthropogenic activities. Science of the Total Environment, 2019, 647, 1137-1147.	8.0	52
63	Conduction Band of Hematite Can Mediate Cytochrome Reduction by Fe(II) under Dark and Anoxic Conditions. Environmental Science & Technology, 2020, 54, 4810-4819.	10.0	52
64	A cryogenic fluorescence spectroscopic study of uranyl carbonate, phosphate and oxyhydroxide minerals. Radiochimica Acta, 2008, 96, 591-598.	1.2	51
65	Fe2+ sorption onto nontronite (NAu-2). Geochimica Et Cosmochimica Acta, 2008, 72, 5361-5371.	3.9	50
66	Microscopic reactive diffusion of uranium in the contaminated sediments at Hanford, United States. Water Resources Research, 2006, 42, .	4.2	49
67	Uranium (VI) transport in saturated heterogeneous media: Influence of kaolinite and humic acid. Environmental Pollution, 2018, 240, 219-226.	7.5	49
68	Differential responses of stream water and bed sediment microbial communities to watershed degradation. Environment International, 2020, 134, 105198.	10.0	46
69	N-doped porous carbon spheres as metal-free electrocatalyst for oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 5751-5758.	10.3	46
70	Reduction of Uranyl in the Interlayer Region of Low Iron Micas under Anoxic and Aerobic Conditions. Environmental Science & Technology, 2006, 40, 5003-5009.	10.0	45
71	Coupled Hydro-Biogeochemical Processes Controlling Cr Reductive Immobilization in Columbia River Hyporheic Zone. Environmental Science & Technology, 2017, 51, 1508-1517.	10.0	44
72	Multispecies diffusion models: A study of uranyl species diffusion. Water Resources Research, 2011, 47, .	4.2	43

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73	Fe_{3â€“x}Ti_xO₄ Nanoparticles as Tunable Probes of Microbial Metal Oxidation. Journal of the American Chemical Society, 2013, 135, 8896-8907.	13.7	43
74	Supercritical Fluid Extraction of Toxic Heavy Metals and Uranium from Acidic Solutions with Sulfur-Containing Organophosphorus Reagents. Industrial & Engineering Chemistry Research, 2003, 42, 1400-1405.	3.7	42
75	Kinetic Analysis of Microbial Reduction of Fe(III) in Nontronite. Environmental Science & Technology, 2007, 41, 2437-2444.	10.0	41
76	Regulation-Structured Dynamic Metabolic Model Provides a Potential Mechanism for Delayed Enzyme Response in Denitrification Process. Frontiers in Microbiology, 2017, 8, 1866.	3.5	40
77	Compositional changes of dissolved organic carbon during its dynamic desorption from hyporheic zone sediments. Science of the Total Environment, 2019, 658, 16-23.	8.0	40
78	Effects of chronic exposure of antibiotics on microbial community structure and functions in hyporheic zone sediments. Journal of Hazardous Materials, 2021, 416, 126141.	12.4	37
79	Quantitative 3-D Elemental Mapping by LA-ICP-MS of a Basaltic Clast from the Hanford 300 Area, Washington, USA. Environmental Science & Technology, 2012, 46, 2025-2032.	10.0	36
80	Impact of sedimentary provenance and weathering on arsenic distribution in aquifers of the Datong basin, China: Constraints from elemental geochemistry. Journal of Hydrology, 2014, 519, 3541-3549.	5.4	36
81	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
82	Transport of fluorescently labeled hydroxyapatite nanoparticles in saturated granular media at environmentally relevant concentrations of surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 457, 58-66.	4.7	34
83	Pore water geochemistry near the sediment-water interface of a zoned, freshwater wetland in the southeastern United States. Environmental Geology, 1998, 33, 143-153.	1.2	32
84	Dynamic Metabolic Modeling of Denitrifying Bacterial Growth: The Cybernetic Approach. Industrial & Engineering Chemistry Research, 2015, 54, 10221-10227.	3.7	32
85	Nitrate bioreduction in redox-variable low permeability sediments. Science of the Total Environment, 2016, 539, 185-195.	8.0	32
86	Chemodiversity of water-extractable organic matter in sediment columns of a polluted urban river in South China. Science of the Total Environment, 2021, 777, 146127.	8.0	32
87	Pore-Scale Process Coupling and Effective Surface Reaction Rates in Heterogeneous Subsurface Materials. Reviews in Mineralogy and Geochemistry, 2015, 80, 191-216.	4.8	31
88	Elucidating the Role of Sulfide on the Stability of Ferrihydrite Colloids under Anoxic Conditions. Environmental Science & Technology, 2019, 53, 4173-4184.	10.0	31
89	Influence of Sediment Bioreduction and Reoxidation on Uranium Sorption. Environmental Science & Technology, 2005, 39, 4125-4133.	10.0	30
90	The dissolution of synthetic Na-boltwoodite in sodium carbonate solutions. Geochimica Et Cosmochimica Acta, 2006, 70, 4836-4849.	3.9	30

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91	Advective Removal of Intraparticle Uranium from Contaminated Vadose Zone Sediments, Hanford, U.S.. Environmental Science & Technology, 2008, 42, 1565-1571.	10.0	30
92	Inhibition Effect of Secondary Phosphate Mineral Precipitation on Uranium Release from Contaminated Sediments. Environmental Science & Technology, 2009, 43, 8344-8349.	10.0	30
93	Scale dependence of intragranular porosity, tortuosity, and diffusivity. Water Resources Research, 2010, 46, .	4.2	30
94	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
95	Coupled Kinetics Model for Microbially Mediated Arsenic Reduction and Adsorption/Desorption on Iron Oxides: Role of Arsenic Desorption Induced by Microbes. Environmental Science & Technology, 2019, 53, 8892-8902.	10.0	30
96	Dynamics of dissolved organic matter and dissolved organic nitrogen during anaerobic/anoxic/oxic treatment processes. Bioresource Technology, 2021, 331, 125026.	9.6	30
97	Influence of calcite on uranium(VI) reactive transport in the groundwaterâ€“river mixing zone. Journal of Contaminant Hydrology, 2014, 156, 27-37.	3.3	29
98	In situ Fe-sulfide coating for arsenic removal under reducing conditions. Journal of Hydrology, 2016, 534, 42-49.	5.4	29
99	Uranium(VI) reduction by nanoscale zero-valent iron in anoxic batch systems: The role of Fe(II) and Fe(III). Chemosphere, 2014, 117, 625-630.	8.2	28
100	Characterizing particleâ€scale equilibrium adsorption and kinetics of uranium(VI) desorption from Uâ€contaminated sediments. Water Resources Research, 2013, 49, 1163-1177.	4.2	27
101	Comparison of 20â€‰nm silver nanoparticles synthesized with and without a gold core: Structure, dissolution in cell culture media, and biological impact on macrophages. Biointerphases, 2015, 10, 031003.	1.6	27
102	Functional Enzyme-Based Approach for Linking Microbial Community Functions with Biogeochemical Process Kinetics. Environmental Science & Technology, 2017, 51, 11848-11857.	10.0	27
103	Modelâ€Based Analysis of the Effects of Damâ€Induced River Water and Groundwater Interactions on Hydroâ€Biogeochemical Transformation of Redox Sensitive Contaminants in a Hyporheic Zone. Water Resources Research, 2018, 54, 5973-5985.	4.2	27
104	Dynamic relationship between dissolved organic matter and soluble microbial products during wastewater treatment. Journal of Cleaner Production, 2021, 317, 128448.	9.3	27
105	Multiscale Investigation on Biofilm Distribution and Its Impact on Macroscopic Biogeochemical Reaction Rates. Water Resources Research, 2017, 53, 8698-8714.	4.2	26
106	Kinetics of Microbial Reduction of Solid Phase U(VI). Environmental Science & Technology, 2006, 40, 6290-6296.	10.0	25
107	In-Situ Measurements of Engineered Nanoporous Particle Transport in Saturated Porous Media. Environmental Science & Technology, 2010, 44, 8190-8195.	10.0	25
108	Release and control of hydrogen sulfide during sludge thermal drying. Journal of Hazardous Materials, 2015, 296, 61-67.	12.4	25

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109	Coupled dynamics of As-containing ferrihydrite transformation and As desorption/re-adsorption in presence of sulfide. Journal of Hazardous Materials, 2020, 384, 121287.	12.4	25
110	Microbial Reduction of Intragrain U(VI) in Contaminated Sediment. Environmental Science & Technology, 2009, 43, 4928-4933.	10.0	24
111	Resupply mechanism to a contaminated aquifer: A laboratory study of U(VI) desorption from capillary fringe sediments. Geochimica Et Cosmochimica Acta, 2010, 74, 5155-5170.	3.9	24
112	In situ treatment of arsenic contaminated groundwater by aquifer iron coating: Experimental study. Science of the Total Environment, 2015, 527-528, 38-46.	8.0	24
113	Pathways of Aqueous Cr(VI) Attenuation in a Slightly Alkaline Oxic Subsurface. Environmental Science & Technology, 2009, 43, 1071-1077.	10.0	23
114	Study of Sorption-Retarded U(VI) Diffusion in Hanford Silt/Clay Material. Environmental Science & Technology, 2009, 43, 7706-7711.	10.0	23
115	A Unified Multiscale Model for Pore-ScaleFlow Simulations in Soils. Soil Science Society of America Journal, 2014, 78, 108-118.	2.2	23
116	River restoration changes distributions of antibiotics, antibiotic resistance genes, and microbial community. Science of the Total Environment, 2021, 788, 147873.	8.0	23
117	Influence of calcium on microbial reduction of solid phase uranium(VI). Biotechnology and Bioengineering, 2007, 97, 1415-1422.	3.3	22
118	Assessment of controlling processes for field-scale uranium reactive transport under highly transient flow conditions. Water Resources Research, 2014, 50, 1006-1024.	4.2	22
119	Identification of Hydrobiogeochemical Processes Controlling Seasonal Variations in Arsenic Concentrations Within a Riverbank Aquifer at Jianghan Plain, China. Water Resources Research, 2018, 54, 4294-4308.	4.2	21
120	Contamination profiles and health risks of PFASs in groundwater of the Maozhou River basin. Environmental Pollution, 2020, 260, 113996.	7.5	21
121	Legacy Effects of Sorption Determine the Formation Efficiency of Mineral-Associated Soil Organic Matter. Environmental Science & Technology, 2022, 56, 2044-2053.	10.0	21
122	Organic carbon sources and controlling processes on aquifer arsenic cycling in the Jianghan Plain, central China. Chemosphere, 2018, 208, 773-781.	8.2	20
123	Tuning the Biodegradability of Chitosan Membranes: Characterization and Conceptual Design. ACS Sustainable Chemistry and Engineering, 2020, 8, 14484-14492.	6.7	19
124	Role of clay-associated humic substances in catalyzing bioreduction of structural Fe(III) in nontronite by Shewanella putrefaciens CN32. Science of the Total Environment, 2020, 741, 140213.	8.0	19
125	Redox transformation and reductive immobilization of Cr(VI) in the Columbia River hyporheic zone sediments. Journal of Hydrology, 2017, 555, 278-287.	5.4	18
126	Characterization of PM10 surrounding a cement plant with integrated facilities for co-processing of hazardous wastes. Journal of Cleaner Production, 2018, 186, 831-839.	9.3	18

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127	Immobilization of Cr(VI) on engineered silicate nanoparticles: Microscopic mechanisms and site energy distribution. Journal of Hazardous Materials, 2020, 383, 121145.	12.4	18
128	Algae explosive growth mechanism enabling weather-like forecast of harmful algal blooms. Scientific Reports, 2018, 8, 9923.	3.3	17
129	Simulating adsorption of U(VI) under transient groundwater flow and hydrochemistry: Physical versus chemical nonequilibrium model. Water Resources Research, 2011, 47, .	4.2	16
130	Investigation of U(VI) Adsorption in Quartzâ€“Chlorite Mineral Mixtures. Environmental Science & Technology, 2014, 48, 7766-7773.	10.0	16
131	Pore and continuum scale study of the effect of subgrid transport heterogeneity on redox reaction rates. Geochimica Et Cosmochimica Acta, 2015, 163, 140-155.	3.9	16
132	Targeted quantification of functional enzyme dynamics in environmental samples for microbially mediated biogeochemical processes. Environmental Microbiology Reports, 2017, 9, 512-521.	2.4	16
133	Interfacial photoreactions of Cr(VI) and oxalate on lepidocrocite surface under oxic and acidic conditions: Reaction mechanism and potential implications for contaminant degradation in surface waters. Chemical Geology, 2021, 583, 120481.	3.3	16
134	An Ion Diffusion Model in Semi-Permeable Clay Materials. Environmental Science & Technology, 2007, 41, 5403-5409.	10.0	15
135	⁹⁹Tc(VII) Retardation, Reduction, and Redox Rate Scaling in Naturally Reduced Sediments. Environmental Science & Technology, 2015, 49, 13403-13412.	10.0	15
136	In-situ arsenic remediation by aquifer iron coating: Field trial in the Datong basin, China. Journal of Hazardous Materials, 2016, 302, 19-26.	12.4	15
137	Watershed-scale distributions of heavy metals in the hyporheic zones of a heavily polluted Maozhou River watershed, southern China. Chemosphere, 2020, 239, 124773.	8.2	15
138	Enhanced sequestration of tetracycline by Mn(II) encapsulated mesoporous silica nanoparticles: Synergistic sorption and mechanism. Chemosphere, 2021, 284, 131334.	8.2	15
139	Micromodel Investigation of Transport Effect on the Kinetics of Reductive Dissolution of Hematite. Environmental Science & Technology, 2013, 47, 4131-4139.	10.0	14
140	Long-term kinetics of uranyl desorption from sediments under advective conditions. Water Resources Research, 2014, 50, 855-870.	4.2	14
141	An electrodynamics-based model for ion diffusion in microbial polysaccharides. Colloids and Surfaces B: Biointerfaces, 2004, 38, 55-65.	5.0	13
142	Uncertainty analysis of multi-rate kinetics of uranium desorption from sediments. Journal of Contaminant Hydrology, 2014, 156, 1-15.	3.3	12
143	What can we learn from in-soil imaging of a live plant: X-ray Computed Tomography and 3D numerical simulation of root-soil system. Rhizosphere, 2017, 3, 259-262.	3.0	12
144	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

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145	Fluorescent Functionalized Mesoporous Silica for Radioactive Material Extraction. Separation Science and Technology, 2012, 47, 1507-1513.	2.5	11
146	Modeling intragranular diffusion in lowâ€connectivity granular media. Water Resources Research, 2012, 48, .	4.2	11
147	Grain-Size Based Additivity Models for Scaling Multi-rate Uranyl Surface Complexation in Subsurface Sediments. Mathematical Geosciences, 2016, 48, 511-535.	2.4	11
148	Transport and retention of Shewanella oneidensis strain MR1 in water-saturated porous media with different grain-surface properties. Chemosphere, 2019, 233, 57-66.	8.2	11
149	Heavy Metal Accumulation and Release Risks in Sediments from Groundwaterâ€"River Water Interaction Zones in a Contaminated River under Restoration. ACS Earth and Space Chemistry, 2020, 4, 2391-2402.	2.7	11
150	Microbial metabolism changes molecular compositions of riverine dissolved organic matter as regulated by temperature. Environmental Pollution, 2022, 306, 119416.	7.5	11
151	Simulations of ecosystem hydrological processes using a unified multi-scale model. Ecological Modelling, 2015, 296, 93-101.	2.5	10
152	Direct thermal drying of sludge using flue gas and its environmental benefits. Drying Technology, 2018, 36, 1006-1016.	3.1	10
153	Formation, aggregation, and transport of NOMâ€"Cr(<scp>iii</scp>) colloids in aquatic environments. Environmental Science: Nano, 2022, 9, 1133-1145.	4.3	10
154	Impact of Physico-Chemical Heterogeneity on Arsenic Sorption and Reactive Transport under Water Extraction. Environmental Science & Technology, 2020, 54, 14974-14983.	10.0	8
155	Evaluation of a Data-Driven, Machine Learning Approach for Identifying Potential Candidates for Environmental Catalysts: From Database Development to Prediction. ACS ES&T Engineering, 2021, 1, 1246-1257.	7.6	8
156	Watershed-scale water environmental capacity estimation assisted by machine learning. Journal of Hydrology, 2021, 597, 126310.	5.4	8
157	Uranium(VI) diffusion in low-permeability subsurface materials. Radiochimica Acta, 2010, 98, 719-726.	1.2	7
158	Effect of ion exchange on the rate of aerobic microbial oxidation of ammonium in hyporheic zone sediments. Environmental Science and Pollution Research, 2018, 25, 8880-8887.	5.3	7
159	Effects of flow-interruption on the bacteria transport behavior in porous media. Journal of Hydrology, 2021, 595, 125677.	5.4	7
160	A spectroscopic study of the effect of ligand complexation on the reduction of uranium(VI) by anthraquinone-2,6-disulfonate (AH₂DS). Radiochimica Acta, 2008, 96, 599-605.	1.2	6
161	Steady state estimation of soil organic carbon using satelliteâ€derived canopy leaf area index. Journal of Advances in Modeling Earth Systems, 2014, 6, 1049-1064.	3.8	6
162	Chlorobenzene Release During Thermal Drying of Sludge: Mechanism and Source. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	6

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163	The feedback interaction between biomass accumulation and heterogeneous flow in porous media: Effect of shear stresses. Journal of Hydrology, 2021, 597, 126083.	5.4	6
164	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
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