Lirong Zhong

List of Publications by Year
in descending order

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65 papers	1,608 citations	279798 23 h-index	315739 38 g-index
66 all docs	66 docs citations	66 times ranked	1680 citing authors

#	Article	IF	Citations
1	Enhanced delivery of engineered Fe-Mn binary oxides in heterogeneous porous media for efficient arsenic stabilization. Journal of Hazardous Materials, 2022, 424, 127371.	12.4	4
2	Mica filled polyetherketoneketones for material extrusion 3D printing. Additive Manufacturing, 2022, 49, 102492.	3.0	4
3	Sulfone-based electrolytes for high energy density lithium-ion batteries. Journal of Power Sources, 2022, 527, 231171.	7.8	21
4	Facile Dual-Protection Layer and Advanced Electrolyte Enhancing Performances of Cobalt-free/Nickel-rich Cathodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 17405-17414.	8.0	8
5	Effects of Fluorinated Diluents in Localized Highâ€Concentration Electrolytes for Lithiumâ€“Oxygen Batteries. Advanced Functional Materials, 2021, 31, 2002927.	14.9	39
6	Advanced Lowâ€Flammable Electrolytes for Stable Operation of Highâ€Voltage Lithiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 13109-13116.	2.0	16
7	Advanced Lowâ€Flammable Electrolytes for Stable Operation of Highâ€Voltage Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 12999-13006.	13.8	70
8	A combined management scheme to simultaneously mitigate As and Cd concentrations in rice cultivated in contaminated paddy soil. Journal of Hazardous Materials, 2021, 416, 125837.	12.4	35
9	Characterizing the Influence of Organic Polymers on the Specific Reactivity of Particulate Remedial Amendments. Frontiers in Environmental Science, 2021, 9, .	3.3	1
10	Benzene homologues contaminants in a former herbicide factory site: distribution, attenuation, risk, and remediation implication. Environmental Geochemistry and Health, 2020, 42, 241-253.	3.4	13
11	Arsenic stabilization performance of a novel starch-modified Fe-Mn binary oxide colloid. Science of the Total Environment, 2020, 707, 136064.	8.0	25
12	Enabling Ether-Based Electrolytes for Long Cycle Life of Lithium-Ion Batteries at High Charge Voltage. ACS Applied Materials & Interfaces, 2020, 12, 54893-54903.	8.0	35
13	Analyses of Runoff and Sediment Transport and their Drivers in a Rare Earth Mine Drainage Basin of the Yangtze River, China. Water (Switzerland), 2020, 12, 2283.	2.7	3
14	Optimized Electrolyte with High Electrochemical Stability and Oxygen Solubility for Lithiumâ€“Oxygen and Lithiumâ€“Air Batteries. ACS Energy Letters, 2020, 5, 2182-2190.	17.4	45
15	Advanced Electrolytes for Fastâ€Charging Highâ€Voltage Lithiumâ€Ion Batteries in Wideâ€Temperature Range. Advanced Energy Materials, 2020, 10, 2000368.	19.5	159
16	Noble and major gases released from rock core materials as intrinsic tracers for detecting carbon dioxide leakage â€“ Laboratory evaluation. International Journal of Greenhouse Gas Control, 2019, 89, 76-88.	4.6	9
17	Nonflammable Electrolytes for Lithium Ion Batteries Enabled by Ultraconformal Passivation Interphases. ACS Energy Letters, 2019, 4, 2529-2534.	17.4	112
18	Tunable Porosity in Fused Filament 3D-Printed Blends of Intrinsically Porous Polymer and Thermoplastic Aliphatic Polyesters Polycaprolactone and Polylactic Acid. ACS Applied Polymer Materials, 2019, 1, 482-492.	4.4	10

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19	Microbial Methylation of Iodide in Unconfined Aquifer Sediments at the Hanford Site, USA. Frontiers in Microbiology, 2019, 10, 2460.	3.5	5
20	Rheological Properties of Aqueous Colloidal Silica Suspensions Related to Amendment Delivery for Subsurface Remediation. Environmental Engineering Science, 2018, 35, 121-131.	1.6	2
21	Combining phytoremediation with soil flushing for arsenic removal from contaminated soil. International Journal of Phytoremediation, 2018, 20, 1229-1235.	3.1	3
22	On-Site Solidification/Stabilization of Cd, Zn, and Pb Co-Contaminated Soil Using Cement: Field Trial at Dongdagou Ditch, Northwest China. Environmental Engineering Science, 2018, 35, 1329-1339.	1.6	11
23	Reducing Arsenic Concentration in Panax notoginseng via Contaminant Immobilization in Soil Using Feâ€“Ce Oxide. Journal of Environmental Quality, 2018, 47, 312-317.	2.0	6
24	Establishing Vadose Zone Slowâ€Release Carbon Sources for Enhanced Bioremediation Using Silica Suspension. Vadose Zone Journal, 2018, 17, 1-10.	2.2	4
25	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
26	Novel highly dispersible, thermally stable core/shell proppants for geothermal applications. Geothermics, 2017, 70, 98-109.	3.4	7
27	Correlation between DNAPL distribution area and dissolved concentration in surfactant enhanced aquifer remediation effluent: A two-dimensional flow cell study. Chemosphere, 2016, 144, 2142-2149.	8.2	19
28	Laboratory study of the influence of scCO2 injection on metals migration, precipitation, and microbial growth. International Journal of Greenhouse Gas Control, 2016, 47, 71-85.	4.6	3
29	Injectable silicaâ€“permanganate gel as a slow-release MnO₄^{â^'} source for groundwater remediation: rheological properties and release dynamics. Environmental Sciences: Processes and Impacts, 2016, 18, 256-264.	3.5	11
30	Field Test of Enhanced Remedial Amendment Delivery Using a Shearâ€Thinning Fluid. Ground Water Monitoring and Remediation, 2015, 35, 34-45.	0.8	22
31	Ammonia gas transport and reactions in unsaturated sediments: Implications for use as an amendment to immobilize inorganic contaminants. Journal of Hazardous Materials, 2015, 289, 118-129.	12.4	13
32	Remediation of Technetium in Vadose Zone Sediments Using Ammonia and Hydrogen Sulfide Gases. Vadose Zone Journal, 2015, 14, 1-12.	2.2	8
33	Stimuli-responsive/rheoreversible hydraulic fracturing fluids as a greener alternative to support geothermal and fossil energy production. Green Chemistry, 2015, 17, 2799-2812.	9.0	48
34	Remedial Amendment Delivery Near the Water Table Using Shear Thinning Fluids: Experiments and Numerical Simulations. Environmental Processes, 2014, 1, 331-351.	3.5	7
35	Transport of perfluorocarbon tracers and carbon dioxide in sediment columns â€“ Evaluating the application of PFC tracers for CO2 leakage detection. Applied Geochemistry, 2014, 45, 25-32.	3.0	10
36	Mobilization and transport of organic compounds from reservoir rock and caprock in geological carbon sequestration sites. Environmental Earth Sciences, 2014, 71, 4261-4272.	2.7	13

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37	Transport of organic contaminants mobilized from coal through sandstone overlying a geological carbon sequestration reservoir. International Journal of Greenhouse Gas Control, 2014, 21, 158-164.	4.6	17
38	Model fit to experimental data for foam-assisted deep vadose zone remediation. Journal of Hazardous Materials, 2014, 264, 460-473.	12.4	6
39	Influence of scCO2 Injection on Precipitation and Metals Migration, and Changes in Electrical Resistivity. Energy Procedia, 2014, 63, 3285-3292.	1.8	3
40	Geochemical Monitoring Considerations for the FutureGen 2.0 Project. Energy Procedia, 2014, 63, 4095-4111.	1.8	7
41	Influence of acidic and alkaline waste solution properties on uranium migration in subsurface sediments. Journal of Contaminant Hydrology, 2013, 151, 155-175.	3.3	38
42	Foam-Assisted Delivery of Nanoscale Zero Valent Iron in Porous Media. Journal of Environmental Engineering, ASCE, 2013, 139, 1206-1212.	1.4	21
43	LNAPL Removal from Unsaturated Porous Media Using Surfactant Infiltration. Vadose Zone Journal, 2012, 11, vzj2011.0166.	2.2	5
44	Experimental Investigation of the Effective Foam Viscosity in Unsaturated Porous Media. Vadose Zone Journal, 2012, 11, vzj2011.0190.	2.2	10
45	Demonstration of Combined Zero-Valent Iron and Electrical Resistance Heating for In Situ Trichloroethene Remediation. Environmental Science & Technology, 2011, 45, 5346-5351.	10.0	38
46	Foam, a promising vehicle to deliver nanoparticles for vadose zone remediation. Journal of Hazardous Materials, 2011, 186, 1773-1780.	12.4	53
47	Enhanced remedial amendment delivery to subsurface using shear thinning fluid and aqueous foam. Journal of Hazardous Materials, 2011, 191, 249-257.	12.4	77
48	Foam: Novel Delivery Technology for Remediation of Vadose Zone Environments. , 2011, , .		1
49	Advanced Remedial Methods for Metals and Radionuclides in Vadose Zone Environments. , 2010, , .		0
50	Foam Delivery of Amendments for Vadose Zone Remediation: Propagation Performance in Unsaturated Sediments. Vadose Zone Journal, 2010, 9, 757-767.	2.2	35
51	Uranium(VI) diffusion in low-permeability subsurface materials. Radiochimica Acta, 2010, 98, 719-726.	1.2	7
52	Microbial Reduction of Intragrain U(VI) in Contaminated Sediment. Environmental Science & Technology, 2009, 43, 4928-4933.	10.0	24
53	Physical control on CCl4 and CHCl3 desorption from artificially contaminated and aged sediments with supercritical carbon dioxide. Chemosphere, 2009, 74, 494-500.	8.2	3
54	Foam Delivery of Calcium Polysulfide to the Vadose Zone for Chromium(VI) Immobilization: A Laboratory Evaluation. Vadose Zone Journal, 2009, 8, 976-985.	2.2	41

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55	Uranium Immobilization by Hydrogen Sulfide Gaseous Treatment under Vadose Zone Conditions. Vadose Zone Journal, 2007, 6, 149-157.	2.2	5
56	Oxidative Remobilization of Biogenic Uranium(IV) Precipitates. Journal of Environmental Quality, 2005, 34, 1763-1771.	2.0	59
57	Impact of Salinity on the Airâ€“Water Partition Coefficient of Gas Tracers. Journal of Environmental Engineering, ASCE, 2005, 131, 1354-1357.	1.4	0
58	Influence of Sediment Bioreduction and Reoxidation on Uranium Sorption. Environmental Science & Technology, 2005, 39, 4125-4133.	10.0	30
59	The effects of surfactant formulation on nonequilibrium NAPL solubilization. Journal of Contaminant Hydrology, 2003, 60, 55-75.	3.3	53
60	Physics of Partially Saturated Porous Media: Residual Saturation and Seismic-Wave Propagation. Annual Review of Earth and Planetary Sciences, 2001, 29, 419-460.	11.0	44
61	Visualization of surfactant-enhanced nonaqueous phase liquid mobilization and solubilization in a two-dimensional micromodel. Water Resources Research, 2001, 37, 523-537.	4.2	38
62	Measurement of Mass-Transfer Rates for Surfactant-Enhanced Solubilization of Nonaqueous Phase Liquids. Environmental Science & Technology, 1999, 33, 2965-2972.	10.0	76
63	Groundwater Quality. Water Environment Research, 1999, 71, 973-1053.	2.7	0
64	Groundwater quality. Water Environment Research, 1998, 70, 807-895.	2.7	1
65	Groundwater quality. Water Environment Research, 1997, 69, 777-844.	2.7	8