List of Publications by Year in descending order

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Ιιαμινι λλανι

#	Article	IF	CITATIONS
1	Water film flow along fracture surfaces of porous rock. Water Resources Research, 1997, 33, 1287-1295.	4.2	232
2	Visualization of the role of the gas-water interface on the fate and transport of colloids in porous media. Water Resources Research, 1994, 30, 11-23.	4.2	213
3	Film Straining of Colloids in Unsaturated Porous Media:Â Conceptual Model and Experimental Testing. Environmental Science & Technology, 1997, 31, 2413-2420.	10.0	211
4	Dewetting of Silica Surfaces upon Reactions with Supercritical CO ₂ and Brine: Pore-Scale Studies in Micromodels. Environmental Science & amp; Technology, 2012, 46, 4228-4235.	10.0	196
5	Supercritical CO ₂ and Ionic Strength Effects on Wettability of Silica Surfaces: Equilibrium Contact Angle Measurements. Energy & Fuels, 2012, 26, 6053-6059.	5.1	183
6	Reoxidation of Bioreduced Uranium under Reducing Conditions. Environmental Science & Technology, 2005, 39, 6162-6169.	10.0	157
7	Influence of the Gas-Water Interface on Transport of Microorganisms through Unsaturated Porous Media. Applied and Environmental Microbiology, 1994, 60, 509-516.	3.1	140
8	Partitioning of Clay Colloids at Air–Water Interfaces. Journal of Colloid and Interface Science, 2002, 247, 54-61.	9.4	115
9	Influence of Calcium Carbonate on U(VI) Sorption to Soils. Environmental Science & Technology, 2003, 37, 5603-5608.	10.0	110
10	Organic carbon distribution, speciation, and elemental correlations within soil microaggregates: Applications of STXM and NEXAFS spectroscopy. Geochimica Et Cosmochimica Acta, 2007, 71, 5439-5449.	3.9	109
11	Wettability and Flow Rate Impacts on Immiscible Displacement: A Theoretical Model. Geophysical Research Letters, 2018, 45, 3077-3086.	4.0	97
12	Improved Glass Micromodel Methods for Studies of Flow and Transport in Fractured Porous Media. Water Resources Research, 1996, 32, 1955-1964.	4.2	96
13	Influence of wettability and permeability heterogeneity on miscible CO2 flooding efficiency. Fuel, 2016, 166, 219-226.	6.4	94
14	Uranium(VI) Adsorption and Surface Complexation Modeling onto Background Sediments from the F-Area Savannah River Site. Environmental Science & Technology, 2012, 46, 1565-1571.	10.0	81
15	Water contact angles on quartz surfaces under supercritical CO2 sequestration conditions: Experimental and molecular dynamics simulation studies. International Journal of Greenhouse Gas Control, 2015, 42, 655-665.	4.6	81
16	Contact angle measurement ambiguity in supercritical CO2–water–mineral systems: Mica as an example. International Journal of Greenhouse Gas Control, 2014, 31, 128-137.	4.6	76
17	Influence of hydrological, biogeochemical and temperature transients on subsurface carbon fluxes in a flood plain environment. Biogeochemistry, 2016, 127, 367-396.	3.5	76
18	Influence of Size, Shape, and Surface Coating on the Stability of Aqueous Suspensions of CdSe Nanoparticles. Chemistry of Materials, 2010, 22, 5251-5257.	6.7	74

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19	Wettability impact on supercritical CO ₂ capillary trapping: Poreâ€scale visualization and quantification. Water Resources Research, 2017, 53, 6377-6394.	4.2	74
20	Capillary pressure and saturation relations for supercritical CO ₂ and brine in sand: Highâ€pressure <i>P_c</i> (<i>S_w</i>) controller/meter measurements and capillary scaling predictions. Water Resources Research, 2013, 49, 4566-4579.	4.2	67
21	Wettability effects on supercritical CO2–brine immiscible displacement during drainage: Pore-scale observation and 3D simulation. International Journal of Greenhouse Gas Control, 2017, 60, 129-139.	4.6	65
22	Geochemical Controls on Contaminant Uranium in Vadose Hanford Formation Sediments at the 200 Area and 300 Area, Hanford Site, Washington. Vadose Zone Journal, 2007, 6, 1004-1017.	2.2	50
23	Moisture Characteristics of Hanford Gravels: Bulk, Grain‣urface, and Intragranular Components. Vadose Zone Journal, 2003, 2, 322-329.	2.2	46
24	Additive Surface Complexation Modeling of Uranium(VI) Adsorption onto Quartz-Sand Dominated Sediments. Environmental Science & 2017, 1997, 2014, 48, 6569-6577.	10.0	41
25	Water Saturation Relations and Their Diffusion‣imited Equilibration in Gas Shale: Implications for Gas Flow in Unconventional Reservoirs. Water Resources Research, 2017, 53, 9757-9770.	4.2	41
26	Aqueous Uranium(VI) Concentrations Controlled by Calcium Uranyl Vanadate Precipitates. Environmental Science & Technology, 2012, 46, 7471-7477.	10.0	37
27	Supercritical CO ₂ uptake by nonswelling phyllosilicates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 873-878.	7.1	37
28	Effects of Organic Carbon Supply Rates on Uranium Mobility in a Previously Bioreduced Contaminated Sediment. Environmental Science & amp; Technology, 2008, 42, 7573-7579.	10.0	34
29	Methane Diffusion and Adsorption in Shale Rocks: A Numerical Study Using the Dusty Gas Model in TOUGH2/EOS7C-ECBM. Transport in Porous Media, 2018, 123, 521-531.	2.6	34
30	Surface-zone flow along unsaturated rock fractures. Water Resources Research, 2001, 37, 287-296.	4.2	31
31	Predicting sedimentary bedrock subsurface weathering fronts and weathering rates. Scientific Reports, 2019, 9, 17198.	3.3	31
32	Approximate boundaries between different flow regimes in fractured rocks. Water Resources Research, 2001, 37, 2103-2111.	4.2	30
33	pH Neutralization and Zonation in Alkaline-Saline Tank Waste Plumes. Environmental Science & Technology, 2004, 38, 1321-1329.	10.0	29
34	Geochemical evolution of highly alkaline and saline tank waste plumes during seepage through vadose zone sediments. Geochimica Et Cosmochimica Acta, 2004, 68, 491-502.	3.9	28
35	Capillary pressureâ€saturation relations in quartz and carbonate sands: Limitations for correlating capillary and wettability influences on air, oil, and supercritical CO ₂ trapping. Water Resources Research, 2016, 52, 6671-6690.	4.2	27
36	Potential Remediation Approach for Uranium-Contaminated Groundwaters Through Potassium Uranyl Vanadate Precipitation. Environmental Science & Technology, 2009, 43, 5467-5471.	10.0	26

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37	Experimental and Modeling Study of Methane Adsorption onto Partially Saturated Shales. Water Resources Research, 2018, 54, 5017-5029.	4.2	26
38	Measuring Partition Coefficients of Colloids at Airâ^'Water Interfaces. Environmental Science & Technology, 1998, 32, 3293-3298.	10.0	25
39	Colloid Formation at Waste Plume Fronts. Environmental Science & Technology, 2004, 38, 6066-6073.	10.0	25
40	Modeling reactive geochemical transport of concentrated aqueous solutions. Water Resources Research, 2005, 41, .	4.2	25
41	Influences of Organic Carbon Supply Rate on Uranium Bioreduction in Initially Oxidizing, Contaminated Sediment. Environmental Science & Technology, 2008, 42, 8901-8907.	10.0	25
42	Depth―and Timeâ€Resolved Distributions of Snowmeltâ€Driven Hillslope Subsurface Flow and Transport and Their Contributions to Surface Waters. Water Resources Research, 2019, 55, 9474-9499.	4.2	25
43	Hexavalent Uranium Diffusion into Soils from Concentrated Acidic and Alkaline Solutions. Environmental Science & Technology, 2004, 38, 3056-3062.	10.0	24
44	Method to Attenuate U(VI) Mobility in Acidic Waste Plumes Using Humic Acids. Environmental Science & Technology, 2011, 45, 2331-2337.	10.0	24
45	Deep Vadose Zone Respiration Contributions to Carbon Dioxide Fluxes from a Semiarid Floodplain. Vadose Zone Journal, 2016, 15, 1-14.	2.2	24
46	Transport and humification of dissolved organic matter within a semi-arid floodplain. Journal of Environmental Sciences, 2017, 57, 24-32.	6.1	24
47	lon Diffusion Within Water Films in Unsaturated Porous Media. Environmental Science & Technology, 2017, 51, 4338-4346.	10.0	24
48	Microbial communities across a hillslopeâ€riparian transect shaped by proximity to the stream, groundwater table, and weathered bedrock. Ecology and Evolution, 2019, 9, 6869-6900.	1.9	24
49	Effects of Salinity-Induced Chemical Reactions on Biotite Wettability Changes under Geologic CO ₂ Sequestration Conditions. Environmental Science and Technology Letters, 2016, 3, 92-97.	8.7	23
50	Using strontium isotopes to evaluate the spatial variation of groundwater recharge. Science of the Total Environment, 2018, 637-638, 672-685.	8.0	23
51	Real-Time X-ray Absorption Spectroscopy of Uranium, Iron, and Manganese in Contaminated Sediments During Bioreduction. Environmental Science & Technology, 2008, 42, 2839-2844.	10.0	21
52	Impacts of Mixedâ€Wettability on Brine Drainage and Supercritical CO ₂ Storage Efficiency in a 2.5â€D Heterogeneous Micromodel. Water Resources Research, 2020, 56, e2019WR026789.	4.2	20
53	Bedrock weathering contributes to subsurface reactive nitrogen and nitrous oxide emissions. Nature Geoscience, 2021, 14, 217-224.	12.9	18
54	Dilution destabilizes engineered ligandâ€coated nanoparticles in aqueous suspensions. Environmental Toxicology and Chemistry, 2018, 37, 1301-1308.	4.3	16

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55	Deep Unsaturated Zone Contributions to Carbon Cycling in Semiarid Environments. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3045-3054.	3.0	15
56	Impact of CO2 injection on wettability of coal at elevated pressure and temperature. International Journal of Greenhouse Gas Control, 2019, 91, 102840.	4.6	15
57	Effects of phosphate on biotite dissolution and secondary precipitation under conditions relevant to engineered subsurface processes. Physical Chemistry Chemical Physics, 2017, 19, 29895-29904.	2.8	11
58	Persistent Source Influences on the Trailing Edge of a Groundwater Plume, and Natural Attenuation Timeframes: The F-Area Savannah River Site. Environmental Science & Technology, 2012, 46, 4490-4497.	10.0	10
59	Spatially Resolved U(VI) Partitioning and Speciation: Implications for Plume Scale Behavior of Contaminant U in the Hanford Vadose Zone. Environmental Science & Technology, 2009, 43, 2247-2253.	10.0	8
60	14. Capillary Pressure and Mineral Wettability Influences on Reservoir CO2 Capacity. , 2013, , 481-504.		7
61	Impacts of Pore Networkâ€5cale Wettability Heterogeneity on Immiscible Fluid Displacement: A Micromodel Study. Water Resources Research, 2021, 57, e2021WR030302.	4.2	7
62	Effect of Saline Waste Solution Infiltration Rates on Uranium Retention and Spatial Distribution in Hanford Sediments. Environmental Science & amp; Technology, 2008, 42, 1973-1978.	10.0	6
63	Estimates of Vadose Zone Drainage from a Capped Seepage Basin, Fâ€Area, Savannah River Site. Vadose Zone Journal, 2012, 11, vzj2011.0131.	2.2	6
64	Reactive transport modeling of column experiments on the evolution of saline–alkaline waste solutions. Journal of Contaminant Hydrology, 2008, 97, 42-54.	3.3	4
65	Surfactants are Ineffective for Reducing Imbibition of Water-Based Fracturing Fluids in Deep Gas Reservoirs. Energy & Fuels, 2021, 35, 11239-11245.	5.1	4
66	Extracting Natural Biosurfactants from Humus Deposits for Subsurface Engineering Applications. Energy & Fuels, 2017, 31, 11902-11910.	5.1	2
67	Method for Controlling Temperature Profiles and Water Table Depths in Laboratory Sediment Columns. Vadose Zone Journal, 2018, 17, 1-7.	2.2	2