Zhi Dou

List of Publications by Year
in descending order

37 papers	599 citations	759233 12 h-index	610901 24 g-index
39 all docs	39 docs citations	39 times ranked	473 citing authors

#	Article	IF	Citations
1	Multiscale roughness influence on conservative solute transport in self-affine fractures. International Journal of Heat and Mass Transfer, 2019, 133, 606-618.	4.8	60
2	Influence of wettability on interfacial area during immiscible liquid invasion into a 3D self-affine rough fracture: Lattice Boltzmann simulations. Advances in Water Resources, 2013, 61, 1-11.	3.8	59
3	Influence of eddies on conservative solute transport through a 2D single self-affine fracture. International Journal of Heat and Mass Transfer, 2018, 121, 597-606.	4.8	57
4	Influence of Shear Displacement on Fluid Flow and Solute Transport in a 3D Rough Fracture. Lithosphere, 2021, 2021, .	1.4	53
5	Numerical study of non-uniqueness of the factors influencing relative permeability in heterogeneous porous media by lattice Boltzmann method. International Journal of Heat and Fluid Flow, 2013, 42, 23-32.	2.4	50
6	Quantification and division of unfrozen water content during the freezing process and the influence of soil properties by low-field nuclear magnetic resonance. Journal of Hydrology, 2021, 602, 126719.	5.4	46
7	Roughness scale dependence of the relationship between tracer longitudinal dispersion and Peclet number in variableâ€aperture fractures. Hydrological Processes, 2018, 32, 1461-1475.	2.6	34
8	Influence of Layer Transition Zone on Rainfall-Induced Instability of Multilayered Slope. Lithosphere, 2021, 2021, .	1.4	29
9	Delayed drainage of aquitard in response to sudden change in groundwater level in adjacent confined aquifer: Analytical and experimental studies. Science Bulletin, 2013, 58, 3060-3069.	1.7	23
10	Simulation of groundwater flow in fractured rocks using a coupled model based on the method of domain decomposition. Environmental Earth Sciences, 2014, 72, 2765-2777.	2.7	18
11	New graphical methods for estimating aquifer hydraulic parameters using pumping tests with exponentially decreasing rates. Hydrological Processes, 2019, 33, 2314-2322.	2.6	13
12	Temporal Mixing Behavior of Conservative Solute Transport through 2D Self-Affine Fractures. Processes, 2018, 6, 158.	2.8	12
13	A Typeâ€Curve Method for the Analysis of Pumping Tests with Piecewiseâ€Linear Pumping Rates. Ground Water, 2020, 58, 788-798.	1.3	11
14	Modelling of solute transport in a filled fracture: Effects of heterogeneity of filled medium. Journal of Hydrodynamics, 2015, 27, 85-92.	3.2	10
15	Three-dimensional analysis of spreading and mixing of miscible compound in heterogeneous variable-aperture fracture. Water Science and Engineering, 2016, 9, 293-299.	3.2	10
16	Enhanced mass transfer between matrix and filled fracture in dual-porosity media during spontaneous imbibition based on low-field nuclear magnetic resonance. Journal of Hydrology, 2022, 607, 127521.	5.4	10
17	Numerical Study of Non-Aqueous Phase Liquid Transport in a Single Filled Fracture by Lattice Boltzmann Method. Journal of Hydrodynamics, 2012, 24, 130-137.	3.2	9
18	Variations of Groundwater Quality in the Multi-Layered Aquifer System near the Luanhe River, China. Sustainability, 2019, 11, 994.	3.2	9

#	Article	IF	Citations
19	Saturation dependence of mass transfer for solute transport through residual unsaturated porous media. International Journal of Heat and Mass Transfer, 2022, 188, 122595.	4.8	9
20	Effects of Cemented Porous Media on Temporal Mixing Behavior of Conservative Solute Transport. Water (Switzerland), 2019, 11, 1204.	2.7	8
21	Quantifying the impact of mineralogical heterogeneity on reactive transport modeling of CO2â€‰+â€‰O2 in-situ leaching of uranium. Acta Geochimica, 2022, 41, 50-63.	1.7	8
22	Spatial and temporal variability of the chemistry of the shallow groundwater in the alluvial fan area of the Luanhe river, North China. Environmental Earth Sciences, 2014, 72, 5123-5137.	2.7	7
23	Experimental investigation and numerical simulation of contaminant migration in the compacted clay containing artificial fractures. Environmental Earth Sciences, 2016, 75, 1.	2.7	7
24	Non-Darcy flows in layered porous media (LPMs) with contrasting pore space structures. Petroleum Science, 2022, 19, 2004-2013.	4.9	7
25	Pore-Scale Modeling of Mixing-Induced Reaction Transport through a Single Self-Affine Fracture. Geofluids, 2018, 2018, 1-10.	0.7	6
26	HAUSDORFF DERIVATIVE MODEL FOR CHARACTERIZATION OF NON-FICKIAN MIXING IN FRACTAL POROUS MEDIA. Fractals, 2019, 27, 1950063.	3.7	6
27	Parameter estimation of an overconsolidated aquitard subjected to periodic hydraulic head variations within adjacent aquifers. Journal of Hydrology, 2020, 583, 124555.	5.4	5
28	Experimental investigation of solute transport across transition interface of porous media under reversible flow directions. Ecotoxicology and Environmental Safety, 2022, 238, 113566.	6.0	5
29	An analytical method for estimating leakage from a hydraulic pressure tunnel. Hydrogeology Journal, 2019, 27, 73-86.	2.1	3
30	Fast Mixing in Heterogeneous Media Characterized by Fractional Derivative Model. Transport in Porous Media, 2020, 134, 387-397.	2.6	3
31	Constant-head and variable-head injection tests for determining the hydraulic parameters of an aquitard. Hydrogeology Journal, 2020, 28, 2359-2372.	2.1	2
32	Estimation of aquitard hydraulic conductivity and skeletal specific storage considering non-Darcy flow. Water Science and Engineering, 2021, 14, 269-269.	3.2	2
33	Influence of Grain Size Transition on Flow and Solute Transport through 3D Layered Porous Media. Lithosphere, 2021, 2021, .	1.4	2
34	Numerical Study of the Influence of Cavity on Immiscible Liquid Transport in Varied-Wettability Fractures. Journal of Chemistry, 2015, 2015, 1-10.	1.9	1
35	Effects of Flow Fluctuation on Dilution and Spreading in a Self-Affine Fracture. Water Environment Research, 2017, 89, 752-762.	2.7	1
36	Application of numerical modeling to reservoir immersion assessment and control in dual-formation hydrogeological unit. Water Science and Technology: Water Supply, 2021, 21, 2357-2373.	2.1	1

#	Article	IF	Citations
37	Influence of Clay on Solute Transport in Saturated Homogeneous Mixed Media. Geofluids, 2021, 2021, 1-14.	0.7	1