Lichun Wang

List of Publications by Year
in descending order

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		471509	434195
43	1,000	17	31
papers	citations	h-index	g-index

45	45	45	829
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modification of the <scp>L</scp>ocal <scp>C</scp>ubic <scp>L</scp>aw of fracture flow for weak inertia, tortuosity, and roughness. Water Resources Research, 2015, 51, 2064-2080.	4.2	149
2	Non-Fickian transport through two-dimensional rough fractures: Assessment and prediction. Water Resources Research, 2014, 50, 871-884.	4.2	73
3	Temperature effects on nitrogen cycling and nitrate removalâ€production efficiency in bed formâ€induced hyporheic zones. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1086-1103.	3.0	56
4	Development of an empirical model relating permeability and specific stiffness for rough fractures from numerical deformation experiments. Journal of Geophysical Research: Solid Earth, 2016, 121, 4977-4989.	3.4	55
5	Universal Relationship Between Viscous and Inertial Permeability of Geologic Porous Media. Geophysical Research Letters, 2019, 46, 1441-1448.	4.0	54
6	Mass Transfer Between Recirculation and Main Flow Zones: Is Physically Based Parameterization Possible?. Water Resources Research, 2019, 55, 345-362.	4.2	52
7	Emergence of Nonlinear Laminar Flow in Fractures During Shear. Rock Mechanics and Rock Engineering, 2018, 51, 3635-3643.	5.4	48
8	Transition from non-Fickian to Fickian longitudinal transport through 3-D rough fractures: Scale-(in)sensitivity and roughness dependence. Journal of Contaminant Hydrology, 2017, 198, 1-10.	3.3	44
9	Insights of variable permeability full-section wall for enhanced control of seawater intrusion and nitrate contamination in unconfined aquifers. Journal of Hydrology, 2020, 586, 124831.	5.4	43
10	Theory for dynamic longitudinal dispersion in fractures and rivers with Poiseuille flow. Geophysical Research Letters, 2012, 39, .	4.0	42
11	Ripple Effects: Bed Form Morphodynamics Cascading Into Hyporheic Zone Biogeochemistry. Water Resources Research, 2019, 55, 7320-7342.	4.2	32
12	The Complexity of Nonlinear Flow and nonâ€Fickian Transport in Fractures Driven by Threeâ€Dimensional Recirculation Zones. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020028.	3.4	30
13	An efficient quasi-3D particle tracking-based approach for transport through fractures with application to dynamic dispersion calculation. Journal of Contaminant Hydrology, 2015, 179, 47-54.	3.3	29
14	Effect of fluid slippage on eddy growth and non-Darcian flow in rock fractures. Journal of Hydrology, 2020, 581, 124440.	5.4	27
15	Effect of slippery boundary on solute transport in rough-walled rock fractures under different flow regimes. Journal of Hydrology, 2021, 598, 126456.	5.4	20
16	Identification of Groundwater Pollution Sources by a SCE-UA Algorithm-Based Simulation/Optimization Model. Water (Switzerland), 2018, 10, 193.	2.7	19
17	Modelling the sources and transport of ammonium nitrogen with the SPARROW model: A case study in a karst basin. Journal of Hydrology, 2021, 592, 125763.	5.4	19
18	Modeling colloid transport in fractures with spatially variable aperture and surface attachment. Journal of Hydrology, 2018, 566, 735-742.	5.4	18

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19	Disentangling the Simultaneous Effects of Inertial Losses and Fracture Dilation on Permeability of Pressurized Fractured Rocks. Geophysical Research Letters, 2019, 46, 8862-8871.	4.0	17
20	Non-Fickian dispersive transport of strontium in laboratory-scale columns: Modelling and evaluation. Journal of Hydrology, 2017, 549, 1-11.	5.4	16
21	Comparison of Nighttime With Daytime Evapotranspiration Responses to Environmental Controls Across Temporal Scales Along a Climate Gradient. Water Resources Research, 2021, 57, e2021WR029638.	4.2	16
22	Connecting Pressureâ€Saturation and Relative Permeability Models to Fracture Properties: The Case of Capillaryâ€Dominated Flow of Supercritical CO₂ and Brine. Water Resources Research, 2018, 54, 6965-6982.	4.2	15
23	Investigation of controls on the regional soil moisture spatiotemporal patterns across different climate zones. Science of the Total Environment, 2020, 726, 138214.	8.0	14
24	Shallow groundwater inhibits soil respiration and favors carbon uptake in a wet alpine meadow ecosystem. Agricultural and Forest Meteorology, 2021, 297, 108254.	4.8	13
25	Diagnosis of environmental controls on daily actual evapotranspiration across a global flux tower network: the roles of water and energy. Environmental Research Letters, 2020, 15, 124070.	5.2	13
26	Linear permeability evolution of expanding conduits due to feedback between flow and fast phase change. Geophysical Research Letters, 2017, 44, 4116-4123.	4.0	12
27	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
28	When can the local advectionâ€“dispersion equation simulate non-Fickian transport through rough fractures?. Stochastic Environmental Research and Risk Assessment, 2019, 33, 931-938.	4.0	10
29	Seismicity Enhances Macrodispersion in Finite Porous and Fractured Domains: A Poreâ€Scale Perspective. Journal of Geophysical Research: Solid Earth, 2019, 124, 2844-2857.	3.4	9
30	The effect of permeability on Darcy-to-Forchheimer flow transition. Journal of Hydrology, 2022, 610, 127836.	5.4	6
31	Parallel Processing Transport Model MT3DMS by Using OpenMP. International Journal of Environmental Research and Public Health, 2018, 15, 1063.	2.6	5
32	Analysis of permeability change in dissolving rough fractures using depth-averaged flow and reactive transport models. International Journal of Greenhouse Gas Control, 2019, 91, 102824.	4.6	5
33	Can homogeneous slip boundary condition affect effective dispersion in single fractures with Poiseuille flow?. Journal of Hydrology, 2020, 581, 124385.	5.4	5
34	Hydrological Evaluation of Flow Diversion Terraces Using Downhill-Slope Calculation Method for High Resolution and Accuracy DEMs. Sustainability, 2018, 10, 2414.	3.2	4
35	Scaleâ€dependent Poiseuille flow alternatively explains enhanced dispersion in geothermal environments. Hydrological Processes, 2019, 33, 527-534.	2.6	4
36	The effective pore volume of multiscale heterogenous fracture-porous media systems derived from the residence time of an inert tracer. Journal of Hydrology, 2022, 610, 127839.	5.4	4

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37	Characterization of the Coherence Between Soil Moisture and Precipitation at Regional Scales. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034340.	3.3	3
38	Colloid transport through a variable-aperture fracture under unfavorable attachment conditions: Characterization with a continuous time random walk model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128822.	4.7	3
39	Estimation of the Groundwater Exploitation Based on Land Subsidence Numerical Model: a Case Study in the Plain Area of Tianjin. Advanced Materials Research, 2012, 610-613, 2734-2739.	0.3	2
40	Unsteadyâ€State Contact Angle Hysteresis During Droplet Oscillation in Capillary Pores: Theoretical Model and VOF Simulation. Water Resources Research, 2021, 57, e2020WR027453.	4.2	1
41	Characterizing shear-thinning fluids transitioning from rheology- to inertia-dominated flow regimes in porous media. Journal of Hydrology, 2021, 601, 126498.	5.4	1
42	DEVELOPMENT OF AN EMPIRICAL MODEL RELATING PERMEABILITY AND SPECIFIC STIFFNESS FOR ROUGH FRACTURES. , 2016, , .		0
43	The Effects of Pore Geometry on Late Time Solute Transport with the Presence of Recirculation Zone. Energies, 2022, 15, 4636.	3.1	0