

Lichun Wang

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,000
citations

471509

17
h-index

434195

31
g-index

45
all docs

45
docs citations

45
times ranked

829
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Colloid transport through a variable-aperture fracture under unfavorable attachment conditions: Characterization with a continuous time random walk model. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 644, 128822. | 4.7 | 3 |
| 2 | The effect of permeability on Darcy-to-Forchheimer flow transition. <i>Journal of Hydrology</i> , 2022, 610, 127836. | 5.4 | 6 |
| 3 | The effective pore volume of multiscale heterogenous fracture-porous media systems derived from the residence time of an inert tracer. <i>Journal of Hydrology</i> , 2022, 610, 127839. | 5.4 | 4 |
| 4 | The Effects of Pore Geometry on Late Time Solute Transport with the Presence of Recirculation Zone. <i>Energies</i> , 2022, 15, 4636. | 3.1 | 0 |
| 5 | Modelling the sources and transport of ammonium nitrogen with the SPARROW model: A case study in a karst basin. <i>Journal of Hydrology</i> , 2021, 592, 125763. | 5.4 | 19 |
| 6 | Shallow groundwater inhibits soil respiration and favors carbon uptake in a wet alpine meadow ecosystem. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108254. | 4.8 | 13 |
| 7 | Unsteady-State Contact Angle Hysteresis During Droplet Oscillation in Capillary Pores: Theoretical Model and VOF Simulation. <i>Water Resources Research</i> , 2021, 57, e2020WR027453. | 4.2 | 1 |
| 8 | Characterization of the Coherence Between Soil Moisture and Precipitation at Regional Scales. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034340. | 3.3 | 3 |
| 9 | Comparison of Nighttime With Daytime Evapotranspiration Responses to Environmental Controls Across Temporal Scales Along a Climate Gradient. <i>Water Resources Research</i> , 2021, 57, e2021WR029638. | 4.2 | 16 |
| 10 | Effect of slippery boundary on solute transport in rough-walled rock fractures under different flow regimes. <i>Journal of Hydrology</i> , 2021, 598, 126456. | 5.4 | 20 |
| 11 | Characterizing shear-thinning fluids transitioning from rheology- to inertia-dominated flow regimes in porous media. <i>Journal of Hydrology</i> , 2021, 601, 126498. | 5.4 | 1 |
| 12 | Effect of fluid slippage on eddy growth and non-Darcian flow in rock fractures. <i>Journal of Hydrology</i> , 2020, 581, 124440. | 5.4 | 27 |
| 13 | Can homogeneous slip boundary condition affect effective dispersion in single fractures with Poiseuille flow?. <i>Journal of Hydrology</i> , 2020, 581, 124385. | 5.4 | 5 |
| 14 | The Complexity of Nonlinear Flow and non-Fickian Transport in Fractures Driven by Three-Dimensional Recirculation Zones. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020028. | 3.4 | 30 |
| 15 | Insights of variable permeability full-section wall for enhanced control of seawater intrusion and nitrate contamination in unconfined aquifers. <i>Journal of Hydrology</i> , 2020, 586, 124831. | 5.4 | 43 |
| 16 | Investigation of controls on the regional soil moisture spatiotemporal patterns across different climate zones. <i>Science of the Total Environment</i> , 2020, 726, 138214. | 8.0 | 14 |
| 17 | Diagnosis of environmental controls on daily actual evapotranspiration across a global flux tower network: the roles of water and energy. <i>Environmental Research Letters</i> , 2020, 15, 124070. | 5.2 | 13 |
| 18 | Ripple Effects: Bed Form Morphodynamics Cascading Into Hyporheic Zone Biogeochemistry. <i>Water Resources Research</i> , 2019, 55, 7320-7342. | 4.2 | 32 |

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|----|---|-----|-----------|
| 19 | Disentangling the Simultaneous Effects of Inertial Losses and Fracture Dilation on Permeability of Pressurized Fractured Rocks. <i>Geophysical Research Letters</i> , 2019, 46, 8862-8871. | 4.0 | 17 |
| 20 | Analysis of permeability change in dissolving rough fractures using depth-averaged flow and reactive transport models. <i>International Journal of Greenhouse Gas Control</i> , 2019, 91, 102824. | 4.6 | 5 |
| 21 | Universal Relationship Between Viscous and Inertial Permeability of Geologic Porous Media. <i>Geophysical Research Letters</i> , 2019, 46, 1441-1448. | 4.0 | 54 |
| 22 | Scale-dependent Poiseuille flow alternatively explains enhanced dispersion in geothermal environments. <i>Hydrological Processes</i> , 2019, 33, 527-534. | 2.6 | 4 |
| 23 | When can the local advection-dispersion equation simulate non-Fickian transport through rough fractures?. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 931-938. | 4.0 | 10 |
| 24 | Seismicity Enhances Macrodispersion in Finite Porous and Fractured Domains: A Pore-scale Perspective. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2844-2857. | 3.4 | 9 |
| 25 | Mass Transfer Between Recirculation and Main Flow Zones: Is Physically Based Parameterization Possible?. <i>Water Resources Research</i> , 2019, 55, 345-362. | 4.2 | 52 |
| 26 | Connecting Pressure-Saturation and Relative Permeability Models to Fracture Properties: The Case of Capillary-Dominated Flow of Supercritical CO ₂ and Brine. <i>Water Resources Research</i> , 2018, 54, 6965-6982. | 4.2 | 15 |
| 27 | Modeling colloid transport in fractures with spatially variable aperture and surface attachment. <i>Journal of Hydrology</i> , 2018, 566, 735-742. | 5.4 | 18 |
| 28 | Hydrological Evaluation of Flow Diversion Terraces Using Downhill-Slope Calculation Method for High Resolution and Accuracy DEMs. <i>Sustainability</i> , 2018, 10, 2414. | 3.2 | 4 |
| 29 | Microscale water distribution and its effects on organic carbon decomposition in unsaturated soils. <i>Science of the Total Environment</i> , 2018, 644, 1036-1043. | 8.0 | 12 |
| 30 | Parallel Processing Transport Model MT3DMS by Using OpenMP. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1063. | 2.6 | 5 |
| 31 | Identification of Groundwater Pollution Sources by a SCE-UA Algorithm-Based Simulation/Optimization Model. <i>Water (Switzerland)</i> , 2018, 10, 193. | 2.7 | 19 |
| 32 | Emergence of Nonlinear Laminar Flow in Fractures During Shear. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3635-3643. | 5.4 | 48 |
| 33 | Transition from non-Fickian to Fickian longitudinal transport through 3-D rough fractures: Scale-(in)sensitivity and roughness dependence. <i>Journal of Contaminant Hydrology</i> , 2017, 198, 1-10. | 3.3 | 44 |
| 34 | Linear permeability evolution of expanding conduits due to feedback between flow and fast phase change. <i>Geophysical Research Letters</i> , 2017, 44, 4116-4123. | 4.0 | 12 |
| 35 | Non-Fickian dispersive transport of strontium in laboratory-scale columns: Modelling and evaluation. <i>Journal of Hydrology</i> , 2017, 549, 1-11. | 5.4 | 16 |
| 36 | Development of an empirical model relating permeability and specific stiffness for rough fractures from numerical deformation experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4977-4989. | 3.4 | 55 |

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|----|---|-----|-----------|
| 37 | Temperature effects on nitrogen cycling and nitrate removal—production efficiency in bed form-induced hyporheic zones. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1086-1103. | 3.0 | 56 |
| 38 | DEVELOPMENT OF AN EMPIRICAL MODEL RELATING PERMEABILITY AND SPECIFIC STIFFNESS FOR ROUGH FRACTURES. , 2016, , . | | 0 |
| 39 | Modification of the local cubic law of fracture flow for weak inertia, tortuosity, and roughness. <i>Water Resources Research</i> , 2015, 51, 2064-2080. | 4.2 | 149 |
| 40 | An efficient quasi-3D particle tracking-based approach for transport through fractures with application to dynamic dispersion calculation. <i>Journal of Contaminant Hydrology</i> , 2015, 179, 47-54. | 3.3 | 29 |
| 41 | Non-Fickian transport through two-dimensional rough fractures: Assessment and prediction. <i>Water Resources Research</i> , 2014, 50, 871-884. | 4.2 | 73 |
| 42 | Estimation of the Groundwater Exploitation Based on Land Subsidence Numerical Model: a Case Study in the Plain Area of Tianjin. <i>Advanced Materials Research</i> , 2012, 610-613, 2734-2739. | 0.3 | 2 |
| 43 | Theory for dynamic longitudinal dispersion in fractures and rivers with Poiseuille flow. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 42 |