Chiyu Xie

List of Publications by Year
in descending order

20	461	623734	794594
papers	citations	14 h-index	19 g-index

22	22	22	381
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An improved pore-network model including viscous coupling effects using direct simulation by the lattice Boltzmann method. Advances in Water Resources, 2017, 100, 26-34.	3.8	53
2	Shear-thinning or shear-thickening fluid for better EOR? â€" A direct pore-scale study. Journal of Petroleum Science and Engineering, 2018, 161, 683-691.	4.2	51
3	Lattice Boltzmann modeling for multiphase viscoplastic fluid flow. Journal of Non-Newtonian Fluid Mechanics, 2016, 234, 118-128.	2.4	45
4	Lattice Boltzmann model for three-phase viscoelastic fluid flow. Physical Review E, 2018, 97, 023312.	2.1	35
5	Enhanced oil recovery mechanism and recovery performance of microâ€gel particle suspensions by microfluidic experiments. Energy Science and Engineering, 2020, 8, 986-998.	4.0	33
6	Self-adaptive preferential flow control using displacing fluid with dispersed polymers in heterogeneous porous media. Journal of Fluid Mechanics, 2021, 906, .	3.4	30
7	Characterization of spontaneous imbibition dynamics in irregular channels by mesoscopic modeling. Computers and Fluids, 2018, 168, 21-31.	2.5	29
8	Evaporation Flux Distribution of Drops on a Hydrophilic or Hydrophobic Flat Surface by Molecular Simulations. Langmuir, 2016, 32, 8255-8264.	3.5	24
9	Lattice Boltzmann Modeling of Thermal Conduction in Composites with Thermal Contact Resistance. Communications in Computational Physics, 2015, 17, 1037-1055.	1.7	22
10	Geometric Criteria for the Snapâ€Off of a Nonâ€Wetting Droplet in Poreâ€Throat Channels With Rectangular Crossâ€Sections. Water Resources Research, 2021, 57, e2020WR029476.	4.2	22
11	Droplet evaporation on a horizontal substrate under gravity field by mesoscopic modeling. Journal of Colloid and Interface Science, 2016, 463, 317-323.	9.4	21
12	Transport mechanism of deformable micro-gel particle through micropores with mechanical properties characterized by AFM. Scientific Reports, 2019, 9, 1453.	3.3	18
13	Nonwetting droplet oscillation and displacement by viscoelastic fluids. Physical Review Fluids, 2020, 5, .	2.5	17
14	Oscillative Trapping of a Droplet in a Converging Channel Induced by Elastic Instability. Physical Review Letters, 2022, 128, 054502.	7.8	14
15	Bonding Strength Effects in Hydro-Mechanical Coupling Transport in Granular Porous Media by Pore-Scale Modeling. Computation, 2016, 4, 15.	2.0	12
16	Lattice Boltzmann Modeling of the Apparent Viscosity of Thinningâ€"Elastic Fluids in Porous Media. Transport in Porous Media, 2021, 137, 63-86.	2.6	12
17	Data-driven physics-informed interpolation evolution combining historical-predicted knowledge for remaining oil distribution prediction. Journal of Petroleum Science and Engineering, 2022, 217, 110795.	4.2	9
18	Pore-Scale Modeling of Immiscible Displacement In Porous Media: The Effects of Dual Wettability. SPE Journal, 2023, 28, 239-250.	3.1	7

#	Article	IF	Citations
19	Viscous Fingering of Irreducible Water During Favorable Viscosity Two-Phase Displacements. Advances in Water Resources, 2021, 153, 103943.	3.8	6
20	Predictions of Relative Permeability for Low Permeability Reservoirs and its Scale Effect. , 2016, , .		1