

# Chiyu Xie

## List of Publications by Year in descending order

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20  
papers

461  
citations

623734

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h-index

794594

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22  
all docs

22  
docs citations

22  
times ranked

381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore-Scale Modeling of Immiscible Displacement In Porous Media: The Effects of Dual Wettability. SPE Journal, 2023, 28, 239-250.	3.1	7
2	Oscillative Trapping of a Droplet in a Converging Channel Induced by Elastic Instability. Physical Review Letters, 2022, 128, 054502.	7.8	14
3	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
4	Self-adaptive preferential flow control using displacing fluid with dispersed polymers in heterogeneous porous media. Journal of Fluid Mechanics, 2021, 906, .	3.4	30
5	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
6	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
7	Viscous Fingering of Irreducible Water During Favorable Viscosity Two-Phase Displacements. Advances in Water Resources, 2021, 153, 103943.	3.8	6
8	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
9	Nonwetting droplet oscillation and displacement by viscoelastic fluids. Physical Review Fluids, 2020, 5, .	2.5	17
10	Transport mechanism of deformable micro-gel particle through micropores with mechanical properties characterized by AFM. Scientific Reports, 2019, 9, 1453.	3.3	18
11	Lattice Boltzmann model for three-phase viscoelastic fluid flow. Physical Review E, 2018, 97, 023312.	2.1	35
12	Characterization of spontaneous imbibition dynamics in irregular channels by mesoscopic modeling. Computers and Fluids, 2018, 168, 21-31.	2.5	29
13	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
14	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
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 for multiphase viscoplastic fluid flow. Journal of Non-Newtonian Fluid Mechanics, 2016, 234, 118-128.	2.4	45
17	Evaporation Flux Distribution of Drops on a Hydrophilic or Hydrophobic Flat Surface by Molecular Simulations. Langmuir, 2016, 32, 8255-8264.	3.5	24
18	Predictions of Relative Permeability for Low Permeability Reservoirs and its Scale Effect. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	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
20	Lattice Boltzmann Modeling of Thermal Conduction in Composites with Thermal Contact Resistance. Communications in Computational Physics, 2015, 17, 1037-1055.	1.7	22