

Yu Chen

List of Publications by Year in descending order

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14
papers

818
citations

759233

12
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

1170
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Direct Numerical Simulation of Pore-Level Events to Improve Pore-Network Models for Prediction of Residual Trapping of CO ₂ . <i>Frontiers in Water</i> , 2022, 3, .	2.3	5
2	A physics-informed and hierarchically regularized data-driven model for predicting fluid flow through porous media. <i>Journal of Computational Physics</i> , 2021, 443, 110526.	3.8	21
3	Modeling and scale-bridging using machine learning: nanoconfinement effects in porous media. <i>Scientific Reports</i> , 2020, 10, 13312.	3.3	24
4	3D particle transport in multichannel microfluidic networks with rough surfaces. <i>Scientific Reports</i> , 2020, 10, 13848.	3.3	8
5	Homogenization of Dissolution and Enhanced Precipitation Induced by Bubbles in Multiphase Flow Systems. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087163.	4.0	21
6	Comprehensive comparison of pore-scale models for multiphase flow in porous media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13799-13806.	7.1	162
7	Inertial Effects During the Process of Supercritical CO ₂ Displacing Brine in a Sandstone: Lattice Boltzmann Simulations Based on the Continuum Surface Force and Geometrical Wetting Models. <i>Water Resources Research</i> , 2019, 55, 11144-11165.	4.2	36
8	Lattice Boltzmann simulations of liquid CO ₂ displacing water in a 2D heterogeneous micromodel at reservoir pressure conditions. <i>Journal of Contaminant Hydrology</i> , 2018, 212, 14-27.	3.3	61
9	Bonding Strength Effects in Hydro-Mechanical Coupling Transport in Granular Porous Media by Pore-Scale Modeling. <i>Computation</i> , 2016, 4, 15.	2.0	12
10	Continuous inertial microparticle and blood cell separation in straight channels with local microstructures. <i>Lab on A Chip</i> , 2016, 16, 532-542.	6.0	115
11	Lattice Boltzmann Simulation of Particle Motion in Binary Immiscible Fluids. <i>Communications in Computational Physics</i> , 2015, 18, 757-786.	1.7	20
12	Momentum-exchange method in lattice Boltzmann simulations of particle-fluid interactions. <i>Physical Review E</i> , 2013, 88, 013303.	2.1	82
13	Lattice Boltzmann method on quadtree grids. <i>Physical Review E</i> , 2011, 83, 026707.	2.1	16
14	Silicon-based microfilters for whole blood cell separation. <i>Biomedical Microdevices</i> , 2008, 10, 251-257.	2.8	235