

Abbas Fakhari

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,514
citations

430874

18
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

997
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13799-13806.	7.1	162
2	Conservative phase-field lattice Boltzmann model for interface tracking equation. Physical Review E, 2015, 91, 063309.	2.1	151
3	Phase-field modeling by the method of lattice Boltzmann equations. Physical Review E, 2010, 81, 036707.	2.1	124
4	Improved locality of the phase-field lattice-Boltzmann model for immiscible fluids at high density ratios. Physical Review E, 2017, 96, 053301.	2.1	122
5	Diffuse interface modeling of three-phase contact line dynamics on curved boundaries: A lattice Boltzmann model for large density and viscosity ratios. Journal of Computational Physics, 2017, 334, 620-638.	3.8	120
6	A mass-conserving lattice Boltzmann method with dynamic grid refinement for immiscible two-phase flows. Journal of Computational Physics, 2016, 315, 434-457.	3.8	116
7	A weighted multiple-relaxation-time lattice Boltzmann method for multiphase flows and its application to partial coalescence cascades. Journal of Computational Physics, 2017, 341, 22-43.	3.8	77
8	Finite-difference lattice Boltzmann method with a block-structured adaptive-mesh-refinement technique. Physical Review E, 2014, 89, 033310.	2.1	74
9	Multiple-relaxation-time lattice Boltzmann method for immiscible fluids at high Reynolds numbers. Physical Review E, 2013, 87, 023304.	2.1	71
10	A phase-field lattice Boltzmann model for simulating multiphase flows in porous media: Application and comparison to experiments of CO2 sequestration at pore scale. Advances in Water Resources, 2018, 114, 119-134.	3.8	68
11	Conservative phase-field lattice-Boltzmann model for ternary fluids. Journal of Computational Physics, 2018, 374, 668-691.	3.8	66
12	Simulation of falling droplet by the lattice Boltzmann method. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3046-3055.	3.3	64
13	Numerics of the lattice boltzmann method on nonuniform grids: Standard LBM and finite-difference LBM. Computers and Fluids, 2015, 107, 205-213.	2.5	49
14	Investigation of deformation and breakup of a falling droplet using a multiple-relaxation-time lattice Boltzmann method. Computers and Fluids, 2011, 40, 156-171.	2.5	47
15	Development of a three-dimensional phase-field lattice Boltzmann method for the study of immiscible fluids at high density ratios. International Journal of Multiphase Flow, 2018, 107, 1-15.	3.4	42
16	Numerical simulation of three-component multiphase flows at high density and viscosity ratios using lattice Boltzmann methods. Physical Review E, 2018, 97, 033312.	2.1	37
17	A simple phase-field model for interface tracking in three dimensions. Computers and Mathematics With Applications, 2019, 78, 1154-1165.	2.7	25
18	Parameterizing the Spatial Markov Model From Breakthrough Curve Data Alone. Water Resources Research, 2017, 53, 10888-10898.	4.2	19

#	ARTICLE	IF	CITATIONS
19	Extended lattice Boltzmann scheme for droplet combustion. <i>Physical Review E</i> , 2017, 95, 053301.	2.1	16
20	SIMULATION OF AN AXISYMMETRIC RISING BUBBLE BY A MULTIPLE RELAXATION TIME LATTICE BOLTZMANN METHOD. <i>International Journal of Modern Physics B</i> , 2009, 23, 4907-4932.	2.0	15
21	Study of phase-field lattice Boltzmann models based on the conservative Allen-Cahn equation. <i>Physical Review E</i> , 2020, 102, 023305.	2.1	15
22	Phase-change modeling based on a novel conservative phase-field method. <i>Journal of Computational Physics</i> , 2021, 432, 110111.	3.8	13
23	A comparative study of interface-conforming ALE-FE scheme and diffuse interface AMR-LB scheme for interfacial dynamics. <i>Journal of Computational Physics</i> , 2019, 395, 602-619.	3.8	9
24	Investigation of deformation and breakup of a moving droplet by the method of lattice Boltzmann equations. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 64, 827-849.	1.6	7
25	On the Use of Lattice-Boltzmann Model for Simulating Lid-Driven Cavity Flows of Strain-hardening Fluids. <i>Nihon Reoroji Gakkaishi</i> , 2011, 38, 201-207.	1.0	4
26	Droplet Deformation and Breakup by Lattice Boltzmann Method. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1