

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	Phase-change modeling based on a novel conservative phase-field method. Journal of Computational Physics, 2021, 432, 110111.	3.8	13
2	Study of phase-field lattice Boltzmann models based on the conservative Allen-Cahn equation. Physical Review E, 2020, 102, 023305.	2.1	15
3	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
4	A comparative study of interface-conforming ALE-FE scheme and diffuse interface AMR-LB scheme for interfacial dynamics. Journal of Computational Physics, 2019, 395, 602-619.	3.8	9
5	A simple phase-field model for interface tracking in three dimensions. Computers and Mathematics With Applications, 2019, 78, 1154-1165.	2.7	25
6	A phase-field lattice Boltzmann model for simulating multiphase flows in porous media: Application and comparison to experiments of CO ₂ sequestration at pore scale. Advances in Water Resources, 2018, 114, 119-134.	3.8	68
7	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
8	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
9	Conservative phase-field lattice-Boltzmann model for ternary fluids. Journal of Computational Physics, 2018, 374, 668-691.	3.8	66
10	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
11	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
12	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
13	Parameterizing the Spatial Markov Model From Breakthrough Curve Data Alone. Water Resources Research, 2017, 53, 10888-10898.	4.2	19
14	Extended lattice Boltzmann scheme for droplet combustion. Physical Review E, 2017, 95, 053301.	2.1	16
15	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
16	Conservative phase-field lattice Boltzmann model for interface tracking equation. Physical Review E, 2015, 91, 063309.	2.1	151
17	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
18	Finite-difference lattice Boltzmann method with a block-structured adaptive-mesh-refinement technique. Physical Review E, 2014, 89, 033310.	2.1	74

#	ARTICLE	IF	CITATIONS
19	Multiple-relaxation-time lattice Boltzmann method for immiscible fluids at high Reynolds numbers. <i>Physical Review E</i> , 2013, 87, 023304.	2.1	71
20	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
21	Investigation of deformation and breakup of a falling droplet using a multiple-relaxation-time lattice Boltzmann method. <i>Computers and Fluids</i> , 2011, 40, 156-171.	2.5	47
22	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
23	Phase-field modeling by the method of lattice Boltzmann equations. <i>Physical Review E</i> , 2010, 81, 036707.	2.1	124
24	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
25	Simulation of falling droplet by the lattice Boltzmann method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 3046-3055.	3.3	64
26	Droplet Deformation and Breakup by Lattice Boltzmann Method. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1