Irina Ginzburg

List of Publications by Year in descending order

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IDINIA CINIZBURC

#	Article	IF	CITATIONS
1	Spurious interface and boundary behaviour beyond physical solutions in lattice Boltzmann schemes. Journal of Computational Physics, 2021, 431, 109986.	3.8	8
2	Enhanced single-node lattice Boltzmann boundary condition for fluid flows. Physical Review E, 2021, 103, 053308.	2.1	11
3	Mass-balance and locality versus accuracy with the new boundary and interface-conjugate approaches in advection-diffusion lattice Boltzmann method. Physics of Fluids, 2021, 33, 057104.	4.0	10
4	Steady-state two-relaxation-time lattice Boltzmann formulation for transport and flow, closed with the compact multi-reflection boundary and interface-conjugate schemes. Journal of Computational Science, 2021, 54, 101215.	2.9	13
5	Reviving the local second-order boundary approach within the two-relaxation-time lattice Boltzmann modelling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190404.	3.4	10
6	Determination of the diffusivity, dispersion, skewness and kurtosis in heterogeneous porous flow. Part I: Analytical solutions with the extended method of moments Advances in Water Resources, 2018, 115, 60-87.	3.8	6
7	Determination of the diffusivity, dispersion, skewness and kurtosis in heterogeneous porous flow. Part II: Lattice Boltzmann schemes with implicit interface. Advances in Water Resources, 2018, 118, 49-82.	3.8	6
8	Low- and high-order accurate boundary conditions: From Stokes to Darcy porous flow modeled with standard and improved Brinkman lattice Boltzmann schemes. Journal of Computational Physics, 2017, 335, 50-83.	3.8	27
9	Prediction of the moments in advection-diffusion lattice Boltzmann method. I. Truncation dispersion, skewness, and kurtosis. Physical Review E, 2017, 95, 013304.	2.1	17
10	Prediction of the moments in advection-diffusion lattice Boltzmann method. II. Attenuation of the boundary layers via double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">ĥ</mml:mi </mml:math> bounce-back flux scheme. Physical Review E, 2017, 95, 013305.	2.1	21
11	Comment on "An improved gray Lattice Boltzmann model for simulating fluid flow in multi-scale porous mediaâ€# Intrinsic links between LBE Brinkman schemes. Advances in Water Resources, 2016, 88, 241-249.	3.8	27
12	Stokes–Brinkman–Darcy Solutions of Bimodal Porous Flow Across Periodic Array of Permeable Cylindrical Inclusions: Cell Model, Lubrication Theory and LBM/FEM Numerical Simulations. Transport in Porous Media, 2016, 111, 795-825.	2.6	16
13	Analysis and improvement of Brinkman lattice Boltzmann schemes: Bulk, boundary, interface. Similarity and distinctness with finite elements in heterogeneous porous media. Physical Review E, 2015, 91, 023307.	2.1	49
14	Truncation effect on Taylor–Aris dispersion in lattice Boltzmann schemes: Accuracy towards stability. Journal of Computational Physics, 2015, 299, 974-1003.	3.8	26
15	The permeability and quality of velocity field in a square array of solid and permeable cylindrical obstacles with the TRT–LBM and FEM Brinkman schemes. Comptes Rendus - Mecanique, 2015, 343, 545-558.	2.1	12
16	Local boundary reflections in lattice Boltzmann schemes: Spurious boundary layers and their impact on the velocity, diffusion and dispersion. Comptes Rendus - Mecanique, 2015, 343, 518-532.	2.1	19
17	Coarse- and fine-grid numerical behavior of MRT/TRT lattice-Boltzmann schemes in regular and random sphere packings. Journal of Computational Physics, 2015, 281, 708-742.	3.8	109
18	Taylor dispersion in heterogeneous porous media: Extended method of moments, theory, and modelling with two-relaxation-times lattice Boltzmann scheme. Physics of Fluids, 2014, 26, .	4.0	31

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19	Multiple anisotropic collisions for advection–diffusion Lattice Boltzmann schemes. Advances in Water Resources, 2013, 51, 381-404.	3.8	48
20	Truncation Errors, Exact And Heuristic Stability Analysis Of Two-Relaxation-Times Lattice Boltzmann Schemes For Anisotropic Advection-Diffusion Equation. Communications in Computational Physics, 2012, 11, 1439-1502.	1.7	84
21	Optimal Stability of Advection-Diffusion Lattice Boltzmann Models with Two Relaxation Times forÂPositive/Negative Equilibrium. Journal of Statistical Physics, 2010, 139, 1090-1143.	1.2	150
22	Viscosity independent numerical errors for Lattice Boltzmann models: From recurrence equations to "magic―collision numbers. Computers and Mathematics With Applications, 2009, 58, 823-840.	2.7	163
23	Consistent lattice Boltzmann schemes for the Brinkman model of porous flow and infinite Chapman-Enskog expansion. Physical Review E, 2008, 77, 066704.	2.1	63
24	Field-scale modeling of subsurface tile-drained soils using an equivalent-medium approach. Journal of Hydrology, 2007, 341, 105-115.	5.4	21
25	Lattice Boltzmann and analytical modeling of flow processes in anisotropic and heterogeneous stratified aquifers. Advances in Water Resources, 2007, 30, 2202-2234.	3.8	47
26	Lattice Boltzmann modeling with discontinuous collision components: Hydrodynamic and Advection-Diffusion Equations. Journal of Statistical Physics, 2007, 126, 157-206.	1.2	74
27	Variably saturated flow described with the anisotropic Lattice Boltzmann methods. Computers and Fluids, 2006, 35, 831-848.	2.5	72
28	Equilibrium-type and link-type lattice Boltzmann models for generic advection and anisotropic-dispersion equation. Advances in Water Resources, 2005, 28, 1171-1195.	3.8	367
29	Generic boundary conditions for lattice Boltzmann models and their application to advection and anisotropic dispersion equations. Advances in Water Resources, 2005, 28, 1196-1216.	3.8	149
30	Lattice Boltzmann approach to Richards' equation. Developments in Water Science, 2004, , 583-595.	0.1	8
31	Lattice Boltzmann model for free-surface flow and its application to filling process in casting. Journal of Computational Physics, 2003, 185, 61-99.	3.8	110
32	Multireflection boundary conditions for lattice Boltzmann models. Physical Review E, 2003, 68, 066614.	2.1	418
33	Multiple–relaxation–time lattice Boltzmann models in three dimensions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 437-451. 	3.4	1,494
34	A free-surface lattice Boltzmann method for modelling the filling of expanding cavities by Bingham fluids. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 453-466.	3.4	59