Alexander J Wagner

List of Publications by Year
in descending order

22	296	1163117 8	888059 17
papers	citations	h-index	g-index

22	22	22	280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shaping the equation of state to improve numerical accuracy and stability of the pseudopotential lattice Boltzmann method. Physical Review E, 2022, 105, 015303.	2.1	4
2	Integer lattice gas with a sampling collision operator for the fluctuating diffusion equationÂ. Physical Review E, 2022, 105, 035303.	2.1	1
3	Overrelaxation in a diffusive integer lattice gas. Physical Review E, 2022, 105, .	2.1	0
4	Nonuniqueness of fluctuating momentum in coarse-grained systems. Physical Review E, 2021, 104, 015304.	2.1	2
5	Molecular dynamics lattice gas equilibrium distribution function for Lennardâ€“Jones particles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200404.	3.4	1
6	Force approach for the pseudopotential lattice Boltzmann method. Physical Review E, 2020, 102, 033307.	2.1	7
7	Non-Gaussian distribution of displacements for Lennard-Jones particles in equilibrium. Physical Review E, 2020, 102, 053310.	2.1	2
8	Large Fluctuations in Nonideal Coarse-Grained Systems. Physical Review Letters, 2020, 124, 234501.	7.8	8
9	Validity of the molecular-dynamics-lattice-gas global equilibrium distribution function. International Journal of Modern Physics C, 2019, 30, 1941007.	1.7	5
10	Multicomponent flow on curved surfaces: A vielbein lattice Boltzmann approach. Physical Review E, 2019, 100, 063306.	2.1	7
11	Integer lattice gas with Monte Carlo collision operator recovers the lattice Boltzmann method with Poisson-distributed fluctuations. Physical Review E, 2018, 97, 023310.	2.1	7
12	Superlattice formation in colloidal nanocrystal suspensions: Hard-sphere freezing and depletion effects. Physical Review E, 2018, 98, .	2.1	6
13	Lattice gas with molecular dynamics collision operator. Physical Review E, 2017, 96, 013314.	2.1	15
14	Fourth-order analysis of a diffusive lattice Boltzmann method for barrier coatings. Physical Review E, 2017, 95, 063311.	2.1	3
15	Fluctuating lattice Boltzmann method for the diffusion equation. Physical Review E, 2016, 94, 033302.	2.1	12
16	Derivation of Hydrodynamics for Multi-Relaxation Time Lattice Boltzmann using the Moment Approach. Communications in Computational Physics, 2013, 13, 614-628.	1.7	12
17	Pinning of domains for fluidâ€“fluid phase separation in lipid bilayers with asymmetric dynamics. Soft Matter, 2011, 7, 2848.	2.7	10
18	Cross Correlators and Galilean Invariance in Fluctuating Ideal Gas Lattice Boltzmann Simulations. Communications in Computational Physics, 2011, 9, 1315-1322.	1.7	2

#	Article	IF	Citations
19	Influence of Monolayer-Monolayer Coupling on the Phase Behavior of a Fluid Lipid Bilayer. Biophysical Journal, 2007, 93, 4268-4277.	0.5	74
20	Electrostatic interactions across a charged lipid bilayer. European Biophysics Journal, 2007, 36, 293-303.	2.2	22
21	Binary Fluid Demixing: The Crossover Region. Journal of Statistical Physics, 2002, 107, 39-52.	1.2	16
22	Leesâ€“Edwards Boundary Conditions for Lattice Boltzmann. Journal of Statistical Physics, 2002, 107, 521-537.	1.2	80