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	Leesâ€“Edwards Boundary Conditions for Lattice Boltzmann. Journal of Statistical Physics, 2002, 107, 521-537.	1.2	80
2	Influence of Monolayer-Monolayer Coupling on the Phase Behavior of a Fluid Lipid Bilayer. Biophysical Journal, 2007, 93, 4268-4277.	0.5	74
3	Electrostatic interactions across a charged lipid bilayer. European Biophysics Journal, 2007, 36, 293-303.	2.2	22
4	Binary Fluid Demixing: The Crossover Region. Journal of Statistical Physics, 2002, 107, 39-52.	1.2	16
5	Lattice gas with molecular dynamics collision operator. Physical Review E, 2017, 96, 013314.	2.1	15
6	Derivation of Hydrodynamics for Multi-Relaxation Time Lattice Boltzmann using the Moment Approach. Communications in Computational Physics, 2013, 13, 614-628.	1.7	12
7	Fluctuating lattice Boltzmann method for the diffusion equation. Physical Review E, 2016, 94, 033302.	2.1	12
8	Pinning of domains for fluidâ€“fluid phase separation in lipid bilayers with asymmetric dynamics. Soft Matter, 2011, 7, 2848.	2.7	10
9	Large Fluctuations in Nonideal Coarse-Grained Systems. Physical Review Letters, 2020, 124, 234501.	7.8	8
10	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
11	Multicomponent flow on curved surfaces: A vielbein lattice Boltzmann approach. Physical Review E, 2019, 100, 063306.	2.1	7
12	Force approach for the pseudopotential lattice Boltzmann method. Physical Review E, 2020, 102, 033307.	2.1	7
13	Superlattice formation in colloidal nanocrystal suspensions: Hard-sphere freezing and depletion effects. Physical Review E, 2018, 98, .	2.1	6
14	Validity of the molecular-dynamics-lattice-gas global equilibrium distribution function. International Journal of Modern Physics C, 2019, 30, 1941007.	1.7	5
15	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
16	Fourth-order analysis of a diffusive lattice Boltzmann method for barrier coatings. Physical Review E, 2017, 95, 063311.	2.1	3
17	Cross Correlators and Galilean Invariance in Fluctuating Ideal Gas Lattice Boltzmann Simulations. Communications in Computational Physics, 2011, 9, 1315-1322.	1.7	2
18	Non-Gaussian distribution of displacements for Lennard-Jones particles in equilibrium. Physical Review E, 2020, 102, 053310.	2.1	2

#	Article	IF	Citations
19	Nonuniqueness of fluctuating momentum in coarse-grained systems. Physical Review E, 2021, 104, 015304.	2.1	2
20	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
21	Integer lattice gas with a sampling collision operator for the fluctuating diffusion equationÂ. Physical Review E, 2022, 105, 035303.	2.1	1
22	Overrelaxation in a diffusive integer lattice gas. Physical Review E, 2022, 105, .	2.1	0