Bart Vorselaars

List of Publications by Year
in descending order

24 papers	1,118 citations	471509 17 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	1231 citing authors

#	Article	IF	Citations
1	Nucleation of NaCl from Aqueous Solution: Critical Sizes, Ion-Attachment Kinetics, and Rates. Journal of the American Chemical Society, 2015, 137, 13352-13361.	13.7	151
2	Use of Machine Learning and Artificial Intelligence to predict SARS-CoV-2 infection from Full Blood Counts in a population. International Immunopharmacology, 2020, 86, 106705.	3.8	124
3	Efficient on the fly calculation of time correlation functions in computer simulations. Journal of Chemical Physics, 2010, 133, 154103.	3.0	121
4	Strain softening and hardening of amorphous polymers: Atomistic simulation of bulk mechanics and local dynamics. Europhysics Letters, 2005, 71, 618-624.	2.0	110
5	Non-Gaussian nature of glassy dynamics by cage to cage motion. Physical Review E, 2007, 75, 011504.	2.1	66
6	NaCl nucleation from brine in seeded simulations: Sources of uncertainty in rate estimates. Journal of Chemical Physics, 2018, 148, 222838.	3.0	62
7	Deforming glassy polystyrene: Influence of pressure, thermal history, and deformation mode on yielding and hardening. Journal of Chemical Physics, 2009, 130, 074905.	3.0	58
8	Microscopic Mechanisms of Strain Hardening in Glassy Polymers. Macromolecules, 2009, 42, 5829-5842.	4.8	52
9	DenResCov-19: A deep transfer learning network for robust automatic classification of COVID-19, pneumonia, and tuberculosis from X-rays. Computerized Medical Imaging and Graphics, 2021, 94, 102008.	5.8	50
10	Monte Carlo Simulation of Uniaxial Tension of an Amorphous Polyethylene-like Polymer Glass. Macromolecules, 2006, 39, 7774-7782.	4.8	41
11	Self-consistent field theory for diblock copolymers grafted to a sphere. Soft Matter, 2011, 7, 5128.	2.7	41
12	Development of Heterogeneity near the Glass Transition:â€‰ Phenyl-Ring-Flip Motions in Polystyrene. Macromolecules, 2007, 40, 6001-6011.	4.8	40
13	Field-Theoretic Simulation of Block Copolymers at Experimentally Relevant Molecular Weights. Macromolecules, 2015, 48, 9071-9080.	4.8	35
14	Instability of the Microemulsion Channel in Block Copolymer-Homopolymer Blends. Physical Review Letters, 2020, 125, 117801.	7.8	26
15	Determination of Tube Theory Parameters Using a Simple Grid Model as an Example. Macromolecules, 2013, 46, 1187-1200.	4.8	22
16	Nucleation barrier reconstruction via the seeding method in a lattice model with competing nucleation pathways. Journal of Chemical Physics, 2016, 145, 211912.	3.0	21
17	Solidâ€“liquid interfacial free energy of ice Ih, ice Ic, and ice 0 within a mono-atomic model of water via the capillary wave method. Journal of Chemical Physics, 2017, 146, 074701.	3.0	19
18	Atomistic Simulation of Bulk Mechanics and Local Dynamics of Amorphous Polymers. Macromolecular Symposia, 2006, 237, 108-118.	0.7	17

#	Article	IF	Citations
19	Equilibration and Deformation of Amorphous Polystyrene: Scaleâ€jumping Simulational Approach. Macromolecular Theory and Simulations, 2008, 17, 290-300.	1.4	17
20	Continuous Thermodynamic Integration in Fieldâ€Theoretic Simulations of Structured Polymers. Macromolecular Theory and Simulations, 2017, 26, 1700036.	1.4	15
21	Turbulence anisotropy and the SO(3) description. Physical Review E, 2003, 68, 046303.	2.1	12
22	Unit-Cell Approximation for Diblockâ^'Copolymer Brushes Grafted to Spherical Particles. Macromolecules, 2011, 44, 3649-3655.	4.8	9
23	A unified approach to computation of solid and liquid free energy to revisit the solid-fluid equilibrium of Lennard-Jones chains. Journal of Chemical Physics, 2015, 142, 114115.	3.0	6
24	Development of a Mortality Prediction Model in Hospitalised SARS-CoV-2 Positive Patients Based on Routine Kidney Biomarkers. International Journal of Molecular Sciences, 2022, 23, 7260.	4.1	2