Thomas Wuest

List of Publications by Year
in descending order

29	653	687363 13	552781 26
papers	citations	h-index	g-index

29	29	29	397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generic, Hierarchical Framework for Massively Parallel Wang-Landau Sampling. Physical Review Letters, 2013, 110, 210603.	7.8	100
2	Versatile Approach to Access the Low Temperature Thermodynamics of Lattice Polymers and Proteins. Physical Review Letters, 2009, 102, 178101.	7.8	88
3	Collapse transitions in a flexible homopolymer chain: Application of the Wang-Landau algorithm. Physical Review E, 2010, 81, 011802.	2.1	79
4	The HP model of protein folding: A challenging testing ground for Wangâ€“Landau sampling. Computer Physics Communications, 2008, 179, 124-127.	7.5	48
5	Generic folding and transition hierarchies for surface adsorption of hydrophobic-polar lattice model proteins. Physical Review E, 2013, 87, 012706.	2.1	44
6	Unraveling the Beautiful Complexity of Simple Lattice Model Polymers and Proteins Using Wang-Landau Sampling. Journal of Statistical Physics, 2011, 144, 638-651.	1.2	35
7	Alignment of radicals into chains by a Markov mechanism for polarity formation. CrystEngComm, 2002, 4, 432-439.	2.6	29
8	Monte Carlo simulations of the HP model (the â€œIsing modelâ€•of protein folding). Computer Physics Communications, 2011, 182, 1896-1899.	7.5	29
9	Application of the Wangâ€“Landau algorithm to the dimerization of glycophorin A. Journal of Chemical Physics, 2009, 130, 215106.	3.0	25
10	A Wangâ€“Landau study of the phase transitions in a flexible homopolymer. Computer Physics Communications, 2009, 180, 587-589.	7.5	25
11	Prediction of Growth-Induced Polarity in Centrosymmetric Molecular Crystals Using Force Field Methods. Chemistry of Materials, 2005, 17, 85-94.	6.7	19
12	Numerical integration using Wangâ€“Landau sampling. Computer Physics Communications, 2007, 177, 524-529.	7.5	18
13	Can Mono Domain Polar Molecular Crystals Exist?. Crystal Growth and Design, 2012, 12, 5211-5218.	3.0	15
14	Conformational transitions of a confined lattice protein: A Wang-Landau study. Journal of Physics: Conference Series, 2012, 402, 012048.	0.4	13
15	Influence of Solid Solution Formation on Polarity:â€‰Molecular Modeling Investigation of the System 4-Chloro-4â€˜-nitrostilbene/4,4â€˜-Dinitrostilbene. Journal of Physical Chemistry B, 2005, 109, 12582-12589.	2.6	12
16	A stochastic principle behind polar properties of condensed molecular matter. New Journal of Chemistry, 2013, 37, 2229.	2.8	12
17	How Symmetrical Molecules Can Induce Polarity: On the Paradox of Dilution. Crystal Growth and Design, 2005, 5, 93-97.	3.0	11
18	The role of chain-stiffness in lattice protein models: A replica-exchange Wang-Landau study. Journal of Chemical Physics, 2018, 149, 125101.	3.0	11

#	Article	IF	Citations
19	Growth-induced polarity formation in solid solutions of organic molecules: Markov mean-field model and Monte Carlo simulations. Journal of Chemical Physics, 2005, 122, 084715.	3.0	9
20	Monte Carlo simulations of systems with complex energy landscapes. Computer Physics Communications, 2009, 180, 475-479.	7.5	6
21	Growth-induced polarity formation in two-component crystals of organic molecules: A statistical analysis. Journal of Physics and Chemistry of Solids, 2006, 67, 2517-2527.	4.0	5
22	Effect of reduced cooperativity on growth-induced polarity formation: a comparison between different growth models. Philosophical Magazine, 2007, 87, 1683-1703.	1.6	4
23	WANGâ€“LANDAU SIMULATIONS OF ADSORBED AND CONFINED LATTICE PROTEINS. International Journal of Modern Physics C, 2012, 23, 1240008.	1.7	4
24	Surface adsorption of lattice HP proteins: Thermodynamics and structural transitions using Wang-Landau sampling. Journal of Physics: Conference Series, 2012, 402, 012046.	0.4	3
25	Wangâ€“Landau sampling of the interplay between surface adsorption and folding of HP lattice proteins. Molecular Simulation, 2014, 40, 640-655.	2.0	3
26	Effects of an external electrical field on the polarization of growing organic crystals: a theoretical study. Chemical Physics Letters, 2003, 377, 340-346.	2.6	2
27	Universality behaviour for polarity formation in channel-type inclusion compounds. Journal of Mathematical Chemistry, 2009, 45, 869-881.	1.5	2
28	Thermodynamics and structural properties of a confined HP protein determined by Wang-Landau simulation. Journal of Physics: Conference Series, 2013, 454, 012071.	0.4	2
29	MONTE CARLO SIMULATIONS OF PROTEIN MODELS: AT THE INTERFACE BETWEEN STATISTICAL PHYSICS AND BIOLOGY. , 2010, , .		0