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	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
2	Wangâ€“Landau sampling of the interplay between surface adsorption and folding of HP lattice proteins. Molecular Simulation, 2014, 40, 640-655.	2.0	3
3	Generic, Hierarchical Framework for Massively Parallel Wang-Landau Sampling. Physical Review Letters, 2013, 110, 210603.	7.8	100
4	A stochastic principle behind polar properties of condensed molecular matter. New Journal of Chemistry, 2013, 37, 2229.	2.8	12
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	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
7	WANGâ€“LANDAU SIMULATIONS OF ADSORBED AND CONFINED LATTICE PROTEINS. International Journal of Modern Physics C, 2012, 23, 1240008.	1.7	4
8	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
9	Conformational transitions of a confined lattice protein: A Wang-Landau study. Journal of Physics: Conference Series, 2012, 402, 012048.	0.4	13
10	Can Mono Domain Polar Molecular Crystals Exist?. Crystal Growth and Design, 2012, 12, 5211-5218.	3.0	15
11	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
12	Monte Carlo simulations of the HP model (the â€œIsing modelâ€•of protein folding). Computer Physics Communications, 2011, 182, 1896-1899.	7.5	29
13	Collapse transitions in a flexible homopolymer chain: Application of the Wang-Landau algorithm. Physical Review E, 2010, 81, 011802.	2.1	79
14	MONTE CARLO SIMULATIONS OF PROTEIN MODELS: AT THE INTERFACE BETWEEN STATISTICAL PHYSICS AND BIOLOGY. , 2010, , .		0
15	Application of the Wangâ€“Landau algorithm to the dimerization of glycophorin A. Journal of Chemical Physics, 2009, 130, 215106.	3.0	25
16	Universality behaviour for polarity formation in channel-type inclusion compounds. Journal of Mathematical Chemistry, 2009, 45, 869-881.	1.5	2
17	A Wangâ€“Landau study of the phase transitions in a flexible homopolymer. Computer Physics Communications, 2009, 180, 587-589.	7.5	25
18	Monte Carlo simulations of systems with complex energy landscapes. Computer Physics Communications, 2009, 180, 475-479.	7.5	6

#	Article	IF	Citations
19	Versatile Approach to Access the Low Temperature Thermodynamics of Lattice Polymers and Proteins. Physical Review Letters, 2009, 102, 178101.	7.8	88
20	The HP model of protein folding: A challenging testing ground for Wangâ€“Landau sampling. Computer Physics Communications, 2008, 179, 124-127.	7.5	48
21	Effect of reduced cooperativity on growth-induced polarity formation: a comparison between different growth models. Philosophical Magazine, 2007, 87, 1683-1703.	1.6	4
22	Numerical integration using Wangâ€“Landau sampling. Computer Physics Communications, 2007, 177, 524-529.	7.5	18
23	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
24	How Symmetrical Molecules Can Induce Polarity: On the Paradox of Dilution. Crystal Growth and Design, 2005, 5, 93-97.	3.0	11
25	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
26	Prediction of Growth-Induced Polarity in Centrosymmetric Molecular Crystals Using Force Field Methods. Chemistry of Materials, 2005, 17, 85-94.	6.7	19
27	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
28	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
29	Alignment of radicals into chains by a Markov mechanism for polarity formation. CrystEngComm, 2002, 4, 432-439.	2.6	29