Peter AhlstrÃ¶m

List of Publications by Year
in descending order

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31 papers	1,038 citations	759190 12 h-index	477281 29 g-index
31 all docs	31 docs citations	31 times ranked	867 citing authors

#	Article	IF	Citations
1	A molecular dynamics study of polarizable water. Molecular Physics, 1989, 68, 563-581.	1.7	407
2	The kinetics of calcium binding to calmodulin: Quin 2 and ANS stopped-flow fluorescence studies. Biochemical and Biophysical Research Communications, 1984, 120, 185-191.	2.1	118
3	Substrate dependent sublimation kinetics of mesoscopic ice films. Surface Science, 1996, 367, L19-L25.	1.9	116
4	Crystallization Kinetics of Thin Amorphous Water Films on Surfaces. Langmuir, 2003, 19, 265-274.	3.5	67
5	Estimating the specific chemical exergy of municipal solid waste. Energy Science and Engineering, 2016, 4, 217-231.	4.0	52
6	A molecular dynamics study of lecithin monolayers. The Journal of Physical Chemistry, 1993, 97, 13691-13702.	2.9	41
7	Simulations of vapor water clusters at vaporâ€“liquid equilibrium. Journal of Chemical Physics, 2005, 123, 024504.	3.0	31
8	Molecular modelling of oxygen and water permeation in polyethylene. Polymer, 2013, 54, 2988-2998.	3.8	27
9	Monte Carlo simulations of equilibrium solubilities and structure of water in n-alkanes and polyethylene. Journal of Chemical Physics, 2007, 126, 224902.	3.0	25
10	Exergy Analysis of Solid Fuel-Fired Heat and Power Plants: A Review. Energies, 2017, 10, 165.	3.1	19
11	Molecular-dynamics simulation of structural and conformational properties of poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.0	18
12	Molecular dynamics simulation of a phospholipase A2-substrate complex. BBA - Proteins and Proteomics, 1993, 1162, 135-142.	2.1	17
13	Evaluating improvements in a waste-to-energy combined heat and power plant. Case Studies in Thermal Engineering, 2019, 14, 100476.	5.7	12
14	Estimation of the Surface Tension of Polar FluidsLong-Range Contributions. Langmuir, 1998, 14, 396-406.	3.5	11
15	Crystallization kinetics of thin amorphous water films on surfaces: Theory and computer modeling. Physical Chemistry Chemical Physics, 2004, 6, 1890-1898.	2.8	11
16	A molecular-level computational study of the diffusion and solubility of water and oxygen in carbonaceous polyethylene nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 589-602.	2.1	10
17	Low-frequency vibrations in monomers, dimers and polymers of propylene glycol. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 699-707.	0.6	7
18	Simulation of water clusters in vapour, alkanes and polyethylenes. Molecular Simulation, 2009, 35, 888-896.	2.0	7

#	Article	IF	Citations
19	The Virial of Angle Dependent Potentials in Molecular Dynamics Simulations. Molecular Simulation, 1994, 13, 367-374.	2.0	6
20	The Segmental and Rotational Dynamics of PPO, Above the Glassâ€Transition, Investigated by Neutron Scattering and Molecular Dynamics Simulations. Soft Materials, 2005, 3, 1-20.	1.7	5
21	Molecular simulation of the effect of ionic impurities and external electric fields on rod-like water clusters in polyethylene. Polymer, 2008, 49, 5357-5362.	3.8	5
22	Molecular Dynamics Simulation of Surface Tension for Polar Molecules. Correction for Long-Range Interaction by Generalized van der Waals Theory.. Acta Chemica Scandinavica, 1995, 49, 182-188.	0.7	5
23	Simulation of 1-alkene and n-alkane binary vapourâ€“liquid equilibrium using different united-atom transferable force fields. Fluid Phase Equilibria, 2005, 232, 136-148.	2.5	4
24	Mirror, mirror on the wall, who is the most offensive of them all? â€“ Explaining the offensive bias in military tactical thinking. Defence Studies, 2019, 19, 170-188.	0.9	4
25	Simulation of water vapor clusters in equilibrium with liquid water. Computer Physics Communications, 2005, 169, 54-56.	7.5	3
26	Atomistic Simulation Studies of Polymers and Water. , 2006, , 59-65.		3
27	Structure-Activity Relations In Enzymes: An Application Of IR-ATR Modulation Spectroscopy. Proceedings of SPIE, 1985, 0553, 234.	0.8	2
28	On the Use of United Atoms in Statistical Mechanical Simulations of Biomolecules. Molecular Simulation, 1991, 7, 181-194.	2.0	2
29	Formation of rodlike structures of water between oppositely charged ions in decane and polyethylene. Journal of Chemical Physics, 2007, 127, 191101.	3.0	2
30	Biomolecules at Phase Boundaries. Jerusalem Symposia on Quantum Chemistry and Biochemistry, 1995, , 371-379.	0.2	1
31	Biomolecules at phase boundaries. Molecular Engineering, 1995, 5, 235-243.	0.2	0