

Steven J Stuart

List of Publications by Year in descending order

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45
papers

8,989
citations

331259

21
h-index

315357

38
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45
all docs

45
docs citations

45
times ranked

6948
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulated annealing with adaptive cooling rates. <i>Journal of Chemical Physics</i> , 2020, 153, 114103.	1.2	19
2	Modeling ion permeation in wild-type and mutant human $\text{h}\pm 7$ nachr ion channels. <i>Journal of Theoretical and Computational Chemistry</i> , 2018, 17, 1850045.	1.8	0
3	Raman intensity and vibrational modes of armchair CNTs. <i>Chemical Physics Letters</i> , 2017, 679, 45-51.	1.2	4
4	Application of advanced sampling and analysis methods to predict the structure of adsorbed protein on a material surface. <i>Biointerphases</i> , 2017, 12, 02D409.	0.6	12
5	Simulation of carbon nanotube welding through Ar bombardment. <i>Journal of Molecular Modeling</i> , 2017, 23, 148.	0.8	3
6	Cluster analysis of molecular simulation trajectories for systems where both conformation and orientation of the sampled states are important. <i>Journal of Computational Chemistry</i> , 2016, 37, 1973-1982.	1.5	31
7	TIGER2 with solvent energy averaging (TIGER2A): An accelerated sampling method for large molecular systems with explicit representation of solvent. <i>Journal of Chemical Physics</i> , 2015, 143, 144105.	1.2	10
8	Parameterization of an interfacial force field for accurate representation of peptide adsorption free energy on high-density polyethylene. <i>Biointerphases</i> , 2015, 10, 021002.	0.6	11
9	Polarizable Molecular Dynamics Simulations of Aqueous Dipeptides. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8733-8740.	1.2	8
10	Simulation of multiphase systems utilizing independent force fields to control intraphase and interphase behavior. <i>Journal of Computational Chemistry</i> , 2012, 33, 1458-1466.	1.5	21
11	Development of a Tuned Interfacial Force Field Parameter Set for the Simulation of Protein Adsorption to Silica Glass. <i>Biointerphases</i> , 2012, 7, 56.	0.6	17
12	Bond-order potentials with split-charge equilibration: Application to C-, H-, and O-containing systems. <i>Journal of Chemical Physics</i> , 2012, 136, 164701.	1.2	25
13	Comparison Between Empirical Protein Force Fields for the Simulation of the Adsorption Behavior of Structured LK Peptides on Functionalized Surfaces. <i>Biointerphases</i> , 2012, 7, 24.	0.6	45
14	Automated, Parallel Optimization Algorithms for Stochastic Functions. , 2011, , .		3
15	Curvature-induced Symmetry Lowering and Anomalous Dispersion of Phonons in Single-Walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1284, 143.	0.1	0
16	Automated, Parallel Optimization of Stochastic Functions Using a Modified Simplex Algorithm. , 2010, , .		2
17	Development of molecular simulation methods to accurately represent protein-surface interactions: The effect of pressure and its determination for a system with constrained atoms. <i>Biointerphases</i> , 2010, 5, 85-95.	0.6	23
18	Assessment of the Transferability of a Protein Force Field for the Simulation of Peptide-Surface Interactions. <i>Langmuir</i> , 2010, 26, 7396-7404.	1.6	63

#	ARTICLE	IF	CITATIONS
19	TIGER2: An improved algorithm for temperature intervals with global exchange of replicas. <i>Journal of Chemical Physics</i> , 2009, 130, 174106.	1.2	42
20	Development of molecular simulation methods to accurately represent protein-surface interactions: Method assessment for the calculation of electrostatic effects. <i>Biointerphases</i> , 2009, 4, 57-64.	0.6	15
21	Molecular dynamics simulations on hydrogen adsorption in finite single walled carbon nanotube bundles. <i>Journal of Molecular Modeling</i> , 2008, 14, 343-351.	0.8	15
22	Empirical bond-order potential for hydrocarbons: Adaptive treatment of van der Waals interactions. <i>Journal of Computational Chemistry</i> , 2008, 29, 601-611.	1.5	27
23	Calculation of adsorption free energy for solute-surface interactions using biased replica-exchange molecular dynamics. <i>Biointerphases</i> , 2008, 3, 9-18.	0.6	44
24	An improved replica-exchange sampling method: Temperature intervals with global energy reassignment. <i>Journal of Chemical Physics</i> , 2007, 127, 164116.	1.2	29
25	Parallel replica dynamics for driven systems: Derivation and application to strained nanotubes. <i>Physical Review B</i> , 2007, 75, .	1.1	34
26	Physical Adsorption Strength in Open Systems. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22957-22960.	1.2	12
27	Molecular Dynamics Simulations on the Effects of Diameter and Chirality on Hydrogen Adsorption in Single Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3780-3786.	1.2	135
28	Molecular Dynamics Simulations of Peptide-Surface Interactions. <i>Langmuir</i> , 2005, 21, 1629-1639.	1.6	115
29	Molecular Simulation To Characterize the Adsorption Behavior of a Fibrinogen β -Chain Fragment. <i>Langmuir</i> , 2005, 21, 1103-1117.	1.6	135
30	Parallel replica dynamics with a heterogeneous distribution of barriers: Application to hexadecane pyrolysis. <i>Journal of Chemical Physics</i> , 2004, 121, 9808-9819.	1.2	25
31	Reactive Bond-Order Simulations Using Both Spatial and Temporal Approaches to Parallelism. <i>Structural Chemistry</i> , 2004, 15, 479-486.	1.0	10
32	A Molecular Dynamics Simulation Study Towards Understanding the Effects of Diameter and Chirality on Hydrogen Adsorption in Singlewalled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2003, 801, 175.	0.1	0
33	Molecular dynamics investigation on liquid-liquid phase change in carbon with empirical bond-order potentials. <i>Journal of Chemical Physics</i> , 2003, 119, 6053-6056.	1.2	20
34	An Iterative Variable-timestep Algorithm for Molecular Dynamics Simulations. <i>Molecular Simulation</i> , 2003, 29, 177-186.	0.9	6
35	A second-generation reactive empirical bond order (REBO) potential energy expression for hydrocarbons. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 783-802.	0.7	2,826
36	Hydrocarbon Reactions in Carbon Nanotubes: Pyrolysis. <i>Materials Research Society Symposia Proceedings</i> , 2000, 651, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
37	A New, Reactive Potential Energy Function to Study the Indentation and Friction of n-Alkane C13 Monolayers. ACS Symposium Series, 2000, , 216-229.	0.5	3
38	Role of Defects in Compression and Friction of Anchored Hydrocarbon Chains on Diamond. Langmuir, 2000, 16, 291-296.	1.6	89
39	A reactive potential for hydrocarbons with intermolecular interactions. Journal of Chemical Physics, 2000, 112, 6472-6486.	1.2	3,589
40	Indentation Analysis of Linear-Chain Hydrocarbon Monolayers Anchored to Diamond. Journal of Physical Chemistry B, 1999, 103, 11357-11365.	1.2	79
41	Surface Curvature Effects in the Aqueous Ionic Solvation of the Chloride Ion. Journal of Physical Chemistry A, 1999, 103, 10300-10307.	1.1	117
42	Molecular dynamics with multiple time scales: The selection of efficient reference system propagators. Journal of Chemical Physics, 1996, 105, 1426-1436.	1.2	121
43	Molecular dynamics for nonequilibrium systems in which there are a small number of very hot particles in a cold bath: Reference system propagator methods. Journal of Chemical Physics, 1996, 105, 235-239.	1.2	4
44	Dynamical fluctuating charge force fields: Application to liquid water. Journal of Chemical Physics, 1994, 101, 6141-6156.	1.2	1,133
45	Potentials and Algorithms for Incorporating Polarizability in Computer Simulations. , 0, , 89-146.		67