Russell Devane

List of Publications by Year
in descending order

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23	1,431	471509	642732
papers	citations	17	23
		h-index	g-index

23	23	23	1442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Zwitterionic Lipid Assemblies: Molecular Dynamics Studies of Monolayers, Bilayers, and Vesicles Using a New Coarse Grain Force Field. Journal of Physical Chemistry B, 2010, 114, 6836-6849.	2.6	234
2	Coarse-grained molecular modeling of non-ionic surfactant self-assembly. Soft Matter, 2008, 4, 2454.	2.7	226
3	Nanoscale organization in room temperature ionic liquids: a coarse grained molecular dynamics simulation study. Soft Matter, 2007, 3, 1395.	2.7	194
4	Transferable Coarse Grain Nonbonded Interaction Model for Amino Acids. Journal of Chemical Theory and Computation, 2009, 5, 2115-2124.	5.3	119
5	Computer simulation studies of self-assembling macromolecules. Current Opinion in Structural Biology, 2012, 22, 175-186.	5.7	109
6	Coarse-grained force field for ionic surfactants. Soft Matter, 2011, 7, 6178.	2.7	69
7	Micellization Studied by GPU-Accelerated Coarse-Grained Molecular Dynamics. Journal of Chemical Theory and Computation, 2011, 7, 4135-4145.	5.3	63
8	Coarse-Grained Potential Models for Phenyl-Based Molecules: I. Parametrization Using Experimental Data. Journal of Physical Chemistry B, 2010, 114, 6386-6393.	2.6	59
9	Exploring the utility of coarse-grained water models for computational studies of interfacial systems. Molecular Physics, 2010, 108, 2007-2020.	1.7	48
10	Premicelles and monomer exchange in aqueous surfactant solutions above and below the critical micelle concentration. Chemical Physics Letters, 2012, 522, 38-42.	2.6	46
11	A time correlation function theory of two-dimensional infrared spectroscopy with applications to liquid water. Journal of Chemical Physics, 2004, 121, 3688-3701.	3.0	38
12	Coarse-Grained Potential Models for Phenyl-Based Molecules: II. Application to Fullerenes. Journal of Physical Chemistry B, 2010, 114, 6394-6400.	2.6	38
13	Parametrization and Application of a Coarse Grained Force Field for Benzene/Fullerene Interactions with Lipids. Journal of Physical Chemistry B, 2010, 114, 16364-16372.	2.6	31
14	A time correlation function theory for the fifth order Raman response function with applications to liquid CS2. Journal of Chemical Physics, 2003, 119, 6073-6082.	3.0	30
15	Paramaterization of a coarse-grained model for linear alkylbenzene sulfonate surfactants and molecular dynamics studies of their self-assembly in aqueous solution. Chemical Physics Letters, 2010, 487, 71-76.	2.6	27
16	SPICA Force Field for Proteins and Peptides. Journal of Chemical Theory and Computation, 2022, 18, 3204-3217.	5.3	21
17	Time correlation function and finite field approaches to the calculation of the fifth order Raman response in liquid xenon. Journal of Chemical Physics, 2006, 125, 234501.	3.0	18
18	A Molecular Dynamics Method for Calculating Molecular Volume Changes Appropriate for Biomolecular Simulation. Biophysical Journal, 2003, 85, 2801-2807.	0.5	14

#	Article	IF	Citations
19	Theoretical Investigation of the Temperature Dependence of the Fifth-Order Raman Response Function of Fluid and Liquid Xenonâ€. Journal of Physical Chemistry B, 2006, 110, 3773-3781.	2.6	13
20	Tractable theory of nonlinear response and multidimensional nonlinear spectroscopy. Physical Review E, 2004, 70, 050101.	2.1	12
21	Applications of a time correlation function theory for the fifth-order Raman response function I: Atomic liquids. Journal of Chemical Physics, 2005, 123, 194507.	3.0	11
22	A combined photothermal and molecular dynamics method for determining molecular volume changes. Chemical Physics Letters, 2006, 418, 137-141.	2.6	8
23	Computer Simulation of Self-Assembling Macromolecules. Advances in Polymer Science, 2013, , 93-107.	0.8	3