

Gary S Ayton

List of Publications by Year in descending order

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29
papers

2,655
citations

331538

21
h-index

477173

29
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29
all docs

29
docs citations

29
times ranked

2089
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical coarse-graining strategy for protein-membrane systems to access mesoscopic scales. Faraday Discussions, 2010, 144, 347-357.	1.6	62
2	Role of Protein Interactions in Defining HIV-1 Viral Capsid Shape and Stability: A Coarse-Grained Analysis. Biophysical Journal, 2010, 98, 18-26.	0.2	74
3	Multiscale Computer Simulation of the Immature HIV-1 Virion. Biophysical Journal, 2010, 99, 2757-2765.	0.2	75
4	Multiscale simulation of protein mediated membrane remodeling. Seminars in Cell and Developmental Biology, 2010, 21, 357-362.	2.3	39
5	Systematic multiscale simulation of membrane protein systems. Current Opinion in Structural Biology, 2009, 19, 138-144.	2.6	93
6	Hybrid Coarse-Graining Approach for Lipid Bilayers at Large Length and Time Scales. Journal of Physical Chemistry B, 2009, 113, 4413-4424.	1.2	56
7	New Insights into BAR Domain-Induced Membrane Remodeling. Biophysical Journal, 2009, 97, 1616-1625.	0.2	74
8	Membrane Binding by the Endophilin N-BAR Domain. Biophysical Journal, 2009, 97, 2746-2753.	0.2	54
9	Chapter 7 Multiscale Simulation of Membranes and Membrane Proteins: Connecting Molecular Interactions to Mesoscopic Behavior. Current Topics in Membranes, 2008, 60, 181-225.	0.5	15
10	The multiscale coarse-graining method. I. A rigorous bridge between atomistic and coarse-grained models. Journal of Chemical Physics, 2008, 128, 244114.	1.2	651
11	The multiscale coarse-graining method. II. Numerical implementation for coarse-grained molecular models. Journal of Chemical Physics, 2008, 128, 244115.	1.2	326
12	Extending the fluctuation theorem to describe reaction coordinates. Journal of Chemical Physics, 2007, 126, 051102.	1.2	27
13	Transient violations of the second law of thermodynamics in protein unfolding examined using synthetic atomic force microscopy and the fluctuation theorem. Journal of Chemical Physics, 2007, 127, 105105.	1.2	6
14	Systematic Coarse Graining of Biomolecular and Soft-Matter Systems. MRS Bulletin, 2007, 32, 929-934.	1.7	36
15	Multiscale simulation of transmembrane proteins. Journal of Structural Biology, 2007, 157, 570-578.	1.3	42
16	Atomistic and Coarse-grained Analysis of Double Spectrin Repeat Units: The Molecular Origins of Flexibility. Journal of Molecular Biology, 2007, 365, 523-534.	2.0	18
17	Multiscale Coarse-Graining and Structural Correlations: Connections to Liquid-State Theory. Journal of Physical Chemistry B, 2007, 111, 4116-4127.	1.2	191
18	Membrane Remodeling from N-BAR Domain Interactions: Insights from Multi-Scale Simulation. Biophysical Journal, 2007, 92, 3595-3602.	0.2	91

#	ARTICLE	IF	CITATIONS
19	Multiscale modeling of biomolecular systems: in serial and in parallel. <i>Current Opinion in Structural Biology</i> , 2007, 17, 192-198.	2.6	395
20	Extending a Spectrin Repeat Unit. I: Linear Force-Extension Response. <i>Biophysical Journal</i> , 2006, 90, 92-100.	0.2	20
21	Extending a Spectrin Repeat Unit. II: Rupture Behavior. <i>Biophysical Journal</i> , 2006, 90, 101-111.	0.2	17
22	Mesoscopic Modeling of Bacterial Flagellar Microhydrodynamics. <i>Biophysical Journal</i> , 2006, 91, 3640-3652.	0.2	19
23	A second generation mesoscopic lipid bilayer model: Connections to field-theory descriptions of membranes and nonlocal hydrodynamics. <i>Journal of Chemical Physics</i> , 2006, 124, 064906.	1.2	41
24	Probing the Molecular-Scale Lipid Bilayer Response to Shear Flow Using Nonequilibrium Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18673-18679.	1.2	20
25	Coupling Field Theory with Continuum Mechanics: A Simulation of Domain Formation in Giant Unilamellar Vesicles. <i>Biophysical Journal</i> , 2005, 88, 3855-3869.	0.2	71
26	Multiscale coupling of mesoscopic- and atomistic-level lipid bilayer simulations. <i>Journal of Chemical Physics</i> , 2005, 122, 244716.	1.2	56
27	A new perspective on the coarse-grained dynamics of fluids. <i>Journal of Chemical Physics</i> , 2004, 120, 4074-4088.	1.2	33
28	Mesoscopic Lateral Diffusion in Lipid Bilayers. <i>Biophysical Journal</i> , 2004, 87, 3299-3311.	0.2	41
29	Simulation of Biomolecular Systems at Multiple Length and Time Scales. <i>International Journal for Multiscale Computational Engineering</i> , 2004, 2, 291-312.	0.8	12