Edward Lyman

List of Publications by Year in descending order

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43 papers

2,286 citations

257450 24 h-index 265206 42 g-index

45 all docs

45 docs citations

45 times ranked

2581 citing authors

#	Article	IF	CITATIONS
1	Full scale structural, mechanical and dynamical properties of HIV-1 liposomes. PLoS Computational Biology, 2022, 18, e1009781.	3.2	9
2	Cholesterol Dependent Activity of the Adenosine A2A Receptor Is Modulated via the Cholesterol Consensus Motif. Molecules, 2022, 27, 3529.	3.8	5
3	Curvature Energetics Determined by Alchemical Simulation on Four Topologically Distinct Lipid Phases. Journal of Physical Chemistry B, 2021, 125, 1815-1824.	2.6	5
4	Changes in pairwise correlations during running reshape global network state in the main olfactory bulb. Journal of Neurophysiology, 2021, 125, 1612-1623.	1.8	6
5	Activation of G-protein-coupled receptors is thermodynamically linked to lipid solvation. Biophysical Journal, 2021, 120, 1777-1787.	0.5	10
6	Differential or Curvature Stress? Modus Vivendi. Biophysical Journal, 2020, 118, 535-537.	0.5	4
7	Laterally Resolved Small-Angle Scattering Intensity from Lipid Bilayer Simulations: An Exact and a Limited-Range Treatment. Journal of Chemical Theory and Computation, 2020, 16, 5287-5300.	5. 3	4
8	Composition dependence of cholesterol flip-flop rates in physiological mixtures. Chemistry and Physics of Lipids, 2020, 232, 104967.	3. 2	5
9	Ultrafast Formation of the Charge Transfer State of Prodan Reveals Unique Aspects of the Chromophore Environment. Journal of Physical Chemistry B, 2020, 124, 2643-2651.	2.6	11
10	Nanoscale dynamics of cholesterol in the cell membrane. Journal of Biological Chemistry, 2019, 294, 12599-12609.	3.4	44
11	Surface Shear Viscosity and Interleaflet Friction from Nonequilibrium Simulations of Lipid Bilayers. Journal of Chemical Theory and Computation, 2019, 15, 6471-6481.	5. 3	27
12	Local Enrichment of Unsaturated Chains around the A _{2A} Adenosine Receptor. Biochemistry, 2019, 58, 4096-4105.	2.5	9
13	Permeability of membranes in the liquid ordered and liquid disordered phases. Nature Communications, 2019, 10, 5616.	12.8	78
14	Membrane cholesterol depletion reduces downstream signaling activity of the adenosine A2A receptor. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 760-767.	2.6	44
15	Neutron scattering in the biological sciences: progress and prospects. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1129-1168.	2.3	47
16	From Dynamics to Membrane Organization: Experimental Breakthroughs Occasion a "Modeling Manifesto― Biophysical Journal, 2018, 115, 595-604.	0.5	25
17	Identification of Two New Cholesterol Interaction Sites on the A2A Adenosine Receptor. Biophysical Journal, 2017, 113, 2415-2424.	0.5	61
18	Hysteresis and the Cholesterol Dependent Phase Transition in Binary Lipid Mixtures with the Martini Model. Journal of Physical Chemistry B, 2016, 120, 13086-13093.	2.6	14

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19	Toward Hydrodynamics with Solvent Free Lipid Models: STRD Martini. Biophysical Journal, 2016, 111, 2689-2697.	0.5	19
20	Amphipathic Helicesâ€"Wedge? Or Nae Nae?. Biophysical Journal, 2016, 110, 1-2.	0.5	14
21	Lipid-Lipid Interactions Determine the Membrane Spontaneous Curvature. Biophysical Journal, 2015, 108, 181a.	0.5	1
22	Retinal Flips the Script. Biophysical Journal, 2015, 108, 2754.	0.5	0
23	Hexagonal Substructure and Hydrogen Bonding in Liquid-Ordered Phases Containing Palmitoyl Sphingomyelin. Biophysical Journal, 2015, 109, 948-955.	0.5	121
24	The Molecular Structure of the Liquid-Ordered Phase of Lipid Bilayers. Journal of the American Chemical Society, 2014, 136, 725-732.	13.7	217
25	Understanding the Role of Amphipathic Helices in N-BAR Domain Driven Membrane Remodeling. Biophysical Journal, 2013, 104, 404-411.	0.5	81
26	Ligand-dependent cholesterol interactions with the human A2A adenosine receptor. Chemistry and Physics of Lipids, 2013, 169, 39-45.	3.2	26
27	Predictions for Cholesterol Interaction Sites on the A _{2A} Adenosine Receptor. Journal of the American Chemical Society, 2012, 134, 16512-16515.	13.7	98
28	Structural Basis of Membrane Bending by the N-BAR Protein Endophilin. Cell, 2012, 149, 137-145.	28.9	220
29	Agonist Dynamics and Conformational Selection during Microsecond Simulations of the A2A Adenosine Receptor. Biophysical Journal, 2012, 102, 2114-2120.	0.5	36
30	Membrane Binding and Self-Association of the Epsin N-Terminal Homology Domain. Journal of Molecular Biology, 2012, 423, 800-817.	4.2	55
31	Reconstructing protein remodeled membranes in molecular detail from mesoscopic models. Physical Chemistry Chemical Physics, 2011, 13, 10430.	2.8	23
32	Mechanism of Membrane Curvature Sensing by Amphipathic Helix Containing Proteins. Biophysical Journal, 2011, 100, 1271-1279.	0.5	184
33	Hierarchical coarse-graining strategy for protein-membrane systems to access mesoscopic scales. Faraday Discussions, 2010, 144, 347-357.	3.2	62
34	Water under the BAR. Biophysical Journal, 2010, 99, 1783-1790.	0.5	25
35	Structure and Dynamics of the Actin Filament. Journal of Molecular Biology, 2010, 396, 252-263.	4.2	84
36	Resampling improves the efficiency of a "fast-switch―equilibrium sampling protocol. Journal of Chemical Physics, 2009, 130, 081102.	3.0	8

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37	A Role for a Specific Cholesterol Interaction in Stabilizing the Apo Configuration of the Human A 2A Adenosine Receptor. Structure, 2009, 17, 1660-1668.	3.3	118
38	New Insights into BAR Domain-Induced Membrane Remodeling. Biophysical Journal, 2009, 97, 1616-1625.	0.5	74
39	Systematic Multiscale Parameterization of Heterogeneous Elastic Network Models of Proteins. Biophysical Journal, 2008, 95, 4183-4192.	0.5	148
40	Reconstructing atomistic detail for coarse-grained models with resolution exchange. Journal of Chemical Physics, 2008, 129, 114103.	3.0	36
41	On the Structural Convergence of Biomolecular Simulations by Determination of the Effective Sample Size. Journal of Physical Chemistry B, 2007, 111, 12876-12882.	2.6	53
42	Ensemble-Based Convergence Analysis of Biomolecular Trajectories. Biophysical Journal, 2006, 91, 164-172.	0.5	106
43	Resolution Exchange Simulation with Incremental Coarsening. Journal of Chemical Theory and Computation, 2006, 2, 656-666.	5.3	69