

Edward Lyman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9378866/publications.pdf>

Version: 2024-02-01

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	Structural Basis of Membrane Bending by the N-BAR Protein Endophilin. <i>Cell</i> , 2012, 149, 137-145.	28.9	220
2	The Molecular Structure of the Liquid-Ordered Phase of Lipid Bilayers. <i>Journal of the American Chemical Society</i> , 2014, 136, 725-732.	13.7	217
3	Mechanism of Membrane Curvature Sensing by Amphipathic Helix Containing Proteins. <i>Biophysical Journal</i> , 2011, 100, 1271-1279.	0.5	184
4	Systematic Multiscale Parameterization of Heterogeneous Elastic Network Models of Proteins. <i>Biophysical Journal</i> , 2008, 95, 4183-4192.	0.5	148
5	Hexagonal Substructure and Hydrogen Bonding in Liquid-Ordered Phases Containing Palmitoyl Sphingomyelin. <i>Biophysical Journal</i> , 2015, 109, 948-955.	0.5	121
6	A Role for a Specific Cholesterol Interaction in Stabilizing the Apo Configuration of the Human A2A Adenosine Receptor. <i>Structure</i> , 2009, 17, 1660-1668.	3.3	118
7	Ensemble-Based Convergence Analysis of Biomolecular Trajectories. <i>Biophysical Journal</i> , 2006, 91, 164-172.	0.5	106
8	Predictions for Cholesterol Interaction Sites on the A _{2A} Adenosine Receptor. <i>Journal of the American Chemical Society</i> , 2012, 134, 16512-16515.	13.7	98
9	Structure and Dynamics of the Actin Filament. <i>Journal of Molecular Biology</i> , 2010, 396, 252-263.	4.2	84
10	Understanding the Role of Amphipathic Helices in N-BAR Domain Driven Membrane Remodeling. <i>Biophysical Journal</i> , 2013, 104, 404-411.	0.5	81
11	Permeability of membranes in the liquid ordered and liquid disordered phases. <i>Nature Communications</i> , 2019, 10, 5616.	12.8	78
12	New Insights into BAR Domain-Induced Membrane Remodeling. <i>Biophysical Journal</i> , 2009, 97, 1616-1625.	0.5	74
13	Resolution Exchange Simulation with Incremental Coarsening. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 656-666.	5.3	69
14	Hierarchical coarse-graining strategy for protein-membrane systems to access mesoscopic scales. <i>Faraday Discussions</i> , 2010, 144, 347-357.	3.2	62
15	Identification of Two New Cholesterol Interaction Sites on the A _{2A} Adenosine Receptor. <i>Biophysical Journal</i> , 2017, 113, 2415-2424.	0.5	61
16	Membrane Binding and Self-Association of the Epsin N-Terminal Homology Domain. <i>Journal of Molecular Biology</i> , 2012, 423, 800-817.	4.2	55
17	On the Structural Convergence of Biomolecular Simulations by Determination of the Effective Sample Size. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12876-12882.	2.6	53
18	Neutron scattering in the biological sciences: progress and prospects. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1129-1168.	2.3	47

#	ARTICLE	IF	CITATIONS
19	Nanoscale dynamics of cholesterol in the cell membrane. <i>Journal of Biological Chemistry</i> , 2019, 294, 12599-12609.	3.4	44
20	Membrane cholesterol depletion reduces downstream signaling activity of the adenosine A2A receptor. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 760-767.	2.6	44
21	Reconstructing atomistic detail for coarse-grained models with resolution exchange. <i>Journal of Chemical Physics</i> , 2008, 129, 114103.	3.0	36
22	Agonist Dynamics and Conformational Selection during Microsecond Simulations of the A2A Adenosine Receptor. <i>Biophysical Journal</i> , 2012, 102, 2114-2120.	0.5	36
23	Surface Shear Viscosity and Interleaflet Friction from Nonequilibrium Simulations of Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6471-6481.	5.3	27
24	Ligand-dependent cholesterol interactions with the human A2A adenosine receptor. <i>Chemistry and Physics of Lipids</i> , 2013, 169, 39-45.	3.2	26
25	Water under the BAR. <i>Biophysical Journal</i> , 2010, 99, 1783-1790.	0.5	25
26	From Dynamics to Membrane Organization: Experimental Breakthroughs Occasion a "Modeling Manifesto". <i>Biophysical Journal</i> , 2018, 115, 595-604.	0.5	25
27	Reconstructing protein remodeled membranes in molecular detail from mesoscopic models. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10430.	2.8	23
28	Toward Hydrodynamics with Solvent Free Lipid Models: STRD Martini. <i>Biophysical Journal</i> , 2016, 111, 2689-2697.	0.5	19
29	Hysteresis and the Cholesterol Dependent Phase Transition in Binary Lipid Mixtures with the Martini Model. <i>Journal of Physical Chemistry B</i> , 2016, 120, 13086-13093.	2.6	14
30	Amphipathic Helices "Wedge? Or Nae Nae?. <i>Biophysical Journal</i> , 2016, 110, 1-2.	0.5	14
31	Ultrafast Formation of the Charge Transfer State of Prodan Reveals Unique Aspects of the Chromophore Environment. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2643-2651.	2.6	11
32	Activation of G-protein-coupled receptors is thermodynamically linked to lipid solvation. <i>Biophysical Journal</i> , 2021, 120, 1777-1787.	0.5	10
33	Local Enrichment of Unsaturated Chains around the A _{2A} Adenosine Receptor. <i>Biochemistry</i> , 2019, 58, 4096-4105.	2.5	9
34	Full scale structural, mechanical and dynamical properties of HIV-1 liposomes. <i>PLoS Computational Biology</i> , 2022, 18, e1009781.	3.2	9
35	Resampling improves the efficiency of a "fast-switch" equilibrium sampling protocol. <i>Journal of Chemical Physics</i> , 2009, 130, 081102.	3.0	8
36	Changes in pairwise correlations during running reshape global network state in the main olfactory bulb. <i>Journal of Neurophysiology</i> , 2021, 125, 1612-1623.	1.8	6

#	ARTICLE	IF	CITATIONS
37	Composition dependence of cholesterol flip-flop rates in physiological mixtures. <i>Chemistry and Physics of Lipids</i> , 2020, 232, 104967.	3.2	5
38	Curvature Energetics Determined by Alchemical Simulation on Four Topologically Distinct Lipid Phases. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1815-1824.	2.6	5
39	Cholesterol Dependent Activity of the Adenosine A2A Receptor Is Modulated via the Cholesterol Consensus Motif. <i>Molecules</i> , 2022, 27, 3529.	3.8	5
40	Differential or Curvature Stress? <i>Modus Vivendi</i> . <i>Biophysical Journal</i> , 2020, 118, 535-537.	0.5	4
41	Laterally Resolved Small-Angle Scattering Intensity from Lipid Bilayer Simulations: An Exact and a Limited-Range Treatment. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5287-5300.	5.3	4
42	Lipid-Lipid Interactions Determine the Membrane Spontaneous Curvature. <i>Biophysical Journal</i> , 2015, 108, 181a.	0.5	1
43	Retinal Flips the Script. <i>Biophysical Journal</i> , 2015, 108, 2754.	0.5	0