

Anthony R Braun

List of Publications by Year in descending order

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papers

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516215

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1788
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpretation of Fluctuation Spectra in Lipid Bilayer Simulations. <i>Biophysical Journal</i> , 2011, 100, 2104-2111.	0.2	117
2	$\hat{\alpha}$ -Synuclein Induces Both Positive Mean Curvature and Negative Gaussian Curvature in Membranes. <i>Journal of the American Chemical Society</i> , 2012, 134, 2613-2620.	6.6	108
3	Curvature Dynamics of $\hat{\alpha}$ -Synuclein Familial Parkinson Disease Mutants. <i>Journal of Biological Chemistry</i> , 2009, 284, 7177-7189.	1.6	97
4	$\hat{\alpha}$ -Synuclein-Induced Membrane Remodeling Is Driven by Binding Affinity, Partition Depth, and Interleaflet Order Asymmetry. <i>Journal of the American Chemical Society</i> , 2014, 136, 9962-9972.	6.6	90
5	Tumor Necrosis Factor-related Apoptosis-inducing Ligand (TRAIL) Induces Death Receptor 5 Networks That Are Highly Organized. <i>Journal of Biological Chemistry</i> , 2012, 287, 21265-21278.	1.6	70
6	Determination of Electron Density Profiles and Area from Simulations of Undulating Membranes. <i>Biophysical Journal</i> , 2011, 100, 2112-2120.	0.2	54
7	Targeting the ensemble of heterogeneous tau oligomers in cells: A novel small molecule screening platform for tauopathies. <i>Alzheimer's and Dementia</i> , 2019, 15, 1489-1502.	0.4	53
8	Comparing Simulations of Lipid Bilayers to Scattering Data: The GROMOS 43A1-S3 Force Field. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5065-5072.	1.2	47
9	Membrane remodeling and mechanics: Experiments and simulations of $\hat{\alpha}$ -Synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1594-1609.	1.4	43
10	X-ray structure, thermodynamics, elastic properties and MD simulations of cardiolipin/dimyristoylphosphatidylcholine mixed membranes. <i>Chemistry and Physics of Lipids</i> , 2014, 178, 1-10.	1.5	42
11	NaCl Interactions with Phosphatidylcholine Bilayers Do Not Alter Membrane Structure but Induce Long-Range Ordering of Ions and Water. <i>Journal of Membrane Biology</i> , 2011, 244, 35-42.	1.0	38
12	$\hat{\alpha}$ -Synuclein's Uniquely Long Amphipathic Helix Enhances its Membrane Binding and Remodeling Capacity. <i>Journal of Membrane Biology</i> , 2017, 250, 183-193.	1.0	27
13	Determining Structural and Mechanical Properties from Molecular Dynamics Simulations of Lipid Vesicles. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4160-4168.	2.3	25
14	Potent inhibitors of toxic alpha-synuclein identified via cellular time-resolved FRET biosensors. <i>Npj Parkinson's Disease</i> , 2021, 7, 52.	2.5	22
15	$\hat{\alpha}$ -Synuclein Reduces Tension and Increases Undulations in Simulations of Small Unilamellar Vesicles. <i>Biophysical Journal</i> , 2015, 108, 1848-1851.	0.2	18
16	Open and Closed Conformations of the Isolated Transmembrane Domain of Death Receptor 5 Support a New Model of Activation. <i>Biophysical Journal</i> , 2014, 106, L21-L24.	0.2	16
17	Death Receptor 5 Networks Require Membrane Cholesterol for Proper Structure and Function. <i>Journal of Molecular Biology</i> , 2016, 428, 4843-4855.	2.0	15
18	Polyunsaturated chains in asymmetric lipids disorder raft mixtures and preferentially associate with $\hat{\alpha}$ -Synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 529-536.	1.4	12

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19	Minimal Nucleation State of α -Synuclein Is Stabilized by Dynamic Threonineâ€œWater Networks. ACS Chemical Neuroscience, 2017, 8, 1859-1864.	1.7	10
20	Extracting Experimental Measurables from Molecular Dynamics Simulations of Membranes. Annual Reports in Computational Chemistry, 2011, , 125-150.	0.9	5
21	The Nature of Membrane Curvature-Induction by Amphipathic α -Helices Relies upon Protein Length: Simulations of α -Synuclein and H0. Biophysical Journal, 2012, 102, 237a.	0.2	1
22	Probing the Membrane Deformations Induced by Binding of Membrane Proteins: Alpha-Synuclein and CRAC. Biophysical Journal, 2010, 98, 487a-488a.	0.2	0
23	α -Synuclein Induced Membrane Curvature: What is the Significance of Negative Gaussian Curvature. Biophysical Journal, 2013, 104, 95a.	0.2	0
24	Quantitative Analysis of Ligand-Induced Supramolecular Clustering of Death Receptor 5 in Jurkat Cells. Biophysical Journal, 2014, 106, 715a.	0.2	0
25	Computational Studies of Alpha-Synuclein Fibril Formation and Stability. Biophysical Journal, 2018, 114, 230a.	0.2	0