Jonathan Barnoud

List of Publications by Year
in descending order

31	2,524	430754 18	526166 27
papers	citations	h-index	g-index

32	32	32	3210
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MDAnalysis: A Python Package for the Rapid Analysis of Molecular Dynamics Simulations. , 2016, , .		790
2	Martini 3: a general purpose force field for coarse-grained molecular dynamics. Nature Methods, 2021, 18, 382-388.	9.0	557
3	Polystyrene Nanoparticles Perturb Lipid Membranes. Journal of Physical Chemistry Letters, 2014, 5, 241-246.	2.1	266
4	Free energy of WALP23 dimer association in DMPC, DPPC, and DOPC bilayers. Chemistry and Physics of Lipids, 2013, 169, 95-105.	1.5	111
5	A Coarse-Grained MARTINI Model of Polyethylene Glycol and of Polyoxyethylene Alkyl Ether Surfactants. Journal of Physical Chemistry B, 2012, 116, 14353-14362.	1.2	90
6	Martini 3 Coarseâ€Grained Force Field: Small Molecules. Advanced Theory and Simulations, 2022, 5, .	1.3	72
7	Protein flexibility in the light of structural alphabets. Frontiers in Molecular Biosciences, 2015, 2, 20.	1.6	71
8	Lipid Membranes as Solvents for Carbon Nanoparticles. Physical Review Letters, 2014, 112, 068102.	2.9	61
9	Piezo1 Forms Specific, Functionally Important Interactions with Phosphoinositides and Cholesterol. Biophysical Journal, 2020, 119, 1683-1697.	0.2	60
10	Hydrophobic Compounds Reshape Membrane Domains. PLoS Computational Biology, 2014, 10, e1003873.	1.5	58
11	Titratable Martini model for constant pH simulations. Journal of Chemical Physics, 2020, 153, 024118.	1.2	57
12	Capturing Cholineâ€“Aromatics Cationâˆ’Ï€ Interactions in the MARTINI Force Field. Journal of Chemical Theory and Computation, 2020, 16, 2550-2560.	2.3	35
13	C 60 fullerene promotes lung monolayer collapse. Journal of the Royal Society Interface, 2015, 12, 20140931.	1.5	31
14	Interactive Molecular Dynamics in Virtual Reality Is an Effective Tool for Flexible Substrate and Inhibitor Docking to the SARS-CoV-2 Main Protease. Journal of Chemical Information and Modeling, 2020, 60, 5803-5814.	2.5	30
15	PBxplore: a tool to analyze local protein structure and deformability with Protein Blocks. PeerJ, 2017, 5, e4013.	0.9	29
16	Alcohol Interactions with Lipid Bilayers. Molecules, 2017, 22, 2078.	1.7	28
17	Resolving Donorâ€“Acceptor Interfaces and Charge Carrier Energy Levels of Organic Semiconductors with Polar Side Chains. Advanced Functional Materials, 2020, 30, 2004799.	7.8	28
18	Sharing Data from Molecular Simulations. Journal of Chemical Information and Modeling, 2019, 59, 4093-4099.	2.5	26

#	Article	IF	Citations
19	Dual Resolution Membrane Simulations Using Virtual Sites. Journal of Physical Chemistry B, 2020, 124, 3944-3953.	1.2	21
20	Coarse-Grained Force Fields for Molecular Simulations. Methods in Molecular Biology, 2015, 1215, 125-149.	0.4	18
21	Interaction of C70 fullerene with the Kv1.2 potassium channel. Physical Chemistry Chemical Physics, 2012, 14, 12526.	1.3	17
22	Size-dependent aggregation of hydrophobic nanoparticles in lipid membranes. Nanoscale, 2020, 12, 9452-9461.	2.8	13
23	The emerging potential of interactive virtual reality in drug discovery. Expert Opinion on Drug Discovery, 2022, 17, 685-698.	2.5	11
24	Gangliosides Destabilize Lipid Phase Separation in Multicomponent Membranes. Biophysical Journal, 2019, 117, 1215-1223.	0.2	9
25	Sex and Ontogenetic Variation in the Crest of Numida meleagris: Implications for Crested Vertebrates. Anatomical Record, 2020, 303, 1018-1034.	0.8	9
26	Coupling Coarse-Grained to Fine-Grained Models via Hamiltonian Replica Exchange. Journal of Chemical Theory and Computation, 2020, 16, 5313-5322.	2.3	9
27	Narupa iMD: A VR-Enabled Multiplayer Framework for Streaming Interactive Molecular Simulations. , 2020, , .		9
28	Lipid phase separation in the presence of hydrocarbons in giant unilamellar vesicles. AIMS Biophysics, 2017, 4, 528-542.	0.3	5
29	Understanding Piezo1's Relationship with Lipids. Biophysical Journal, 2019, 116, 459a.	0.2	1
30	Lipid Membranes as Solvent for Carbon Nanoparticles. Biophysical Journal, 2014, 106, 290a.	0.2	0
31	New Automated and High-throughput Tools for the Martini Forcefield. Biophysical Journal, 2018, 114, 676a-677a.	0.2	0