

Rgis Poms

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

2,378
citations

27
h-index

48
g-index

66
ext. papers

2,888
ext. citations

9.7
avg, IF

5.28
L-index

#	Paper	IF	Citations
51	Proline and glycine control protein self-organization into elastomeric or amyloid fibrils. <i>Structure</i> , 2006 , 14, 1667-76	5.2	274
50	Molecular mechanism of H ⁺ conduction in the single-file water chain of the gramicidin channel. <i>Biophysical Journal</i> , 2002 , 82, 2304-16	2.9	229
49	Statistical Convergence of Equilibrium Properties in Simulations of Molecular Solutes Embedded in Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 4175-88	6.4	162
48	The role of dimer asymmetry and protomer dynamics in enzyme catalysis. <i>Science</i> , 2017 , 355,	33.3	113
47	Catalysis of Na ⁺ permeation in the bacterial sodium channel Na(V)Ab. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11331-6	11.5	94
46	Structures of closed and open states of a voltage-gated sodium channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3051-E3060	11.5	93
45	The liquid structure of elastin. <i>ELife</i> , 2017 , 6,	8.9	83
44	Mechanistic insights into allosteric regulation of the A adenosine G protein-coupled receptor by physiological cations. <i>Nature Communications</i> , 2018 , 9, 1372	17.4	81
43	Orkambi [®] and amplifier co-therapy improves function from a rare mutation in gene-edited cells and patient tissue. <i>EMBO Molecular Medicine</i> , 2017 , 9, 1224-1243	12	76
42	Accelerating Convergence in Molecular Dynamics Simulations of Solutes in Lipid Membranes by Conducting a Random Walk along the Bilayer Normal. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3686-703	6.4	73
41	Sampling errors in free energy simulations of small molecules in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2539-2548	3.8	70
40	Indolicidin binding induces thinning of a lipid bilayer. <i>Biophysical Journal</i> , 2014 , 106, L29-31	2.9	68
39	STIM1 activates CRAC channels through rotation of the pore helix to open a hydrophobic gate. <i>Nature Communications</i> , 2017 , 8, 14512	17.4	66
38	Molecular simulations of protein disorder. <i>Biochemistry and Cell Biology</i> , 2010 , 88, 269-90	3.6	65
37	Structure of saposin A lipoprotein discs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2908-12	11.5	61
36	Structural disorder and protein elasticity. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 725, 159-88	3.8	59
35	Role of Liquid-Liquid Phase Separation in Assembly of Elastin and Other Extracellular Matrix Proteins. <i>Journal of Molecular Biology</i> , 2018 , 430, 4741-4753	6.5	47

34	Simulated Tempering Distributed Replica Sampling, Virtual Replica Exchange, and Other Generalized-Ensemble Methods for Conformational Sampling. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 2640-62	6.4	47
33	The molecular mechanism of Zinc acquisition by the neisserial outer-membrane transporter ZnuD. <i>Nature Communications</i> , 2015 , 6, 7996	17.4	44
32	Lysosomal integral membrane protein-2 (LIMP-2/SCARB2) is involved in lysosomal cholesterol export. <i>Nature Communications</i> , 2019 , 10, 3521	17.4	43
31	Can Specific Protein-Lipid Interactions Stabilize an Active State of the Beta 2 Adrenergic Receptor?. <i>Biophysical Journal</i> , 2015 , 109, 1652-62	2.9	41
30	Mapping the functional anatomy of Orai1 transmembrane domains for CRAC channel gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5193-E5202	11.5	38
29	Structure of Human Acid Sphingomyelinase Reveals the Role of the Saposin Domain in Activating Substrate Hydrolysis. <i>Journal of Molecular Biology</i> , 2016 , 428, 3026-42	6.5	34
28	Modification and periplasmic translocation of the biofilm exopolysaccharide poly- β -1,6-N-acetyl-D-glucosamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11013-8	11.5	33
27	Structural basis for gating pore current in periodic paralysis. <i>Nature</i> , 2018 , 557, 590-594	50.4	33
26	Modulated growth, stability and interactions of liquid-like coacervate assemblies of elastin. <i>Matrix Biology</i> , 2014 , 36, 39-50	11.4	32
25	Hydrophobic Gating of Ion Permeation in Magnesium Channel CorA. <i>PLoS Computational Biology</i> , 2015 , 11, e1004303	5	31
24	Systematic design of unimolecular star copolymer micelles using molecular dynamics simulations. <i>Soft Matter</i> , 2010 , 6, 5491	3.6	27
23	Distributed Replica Sampling. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 725-31	6.4	25
22	Atomistic picture of conformational exchange in a T4 lysozyme cavity mutant: an experiment-guided molecular dynamics study. <i>Chemical Science</i> , 2016 , 7, 3602-3613	9.4	24
21	Somatostatin binds to the human amyloid β peptide and favors the formation of distinct oligomers. <i>ELife</i> , 2017 , 6,	8.9	21
20	Hydrophobic gasket mutation produces gating pore currents in closed human voltage-gated proton channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18951-18961	11.5	19
19	A Scalable FPGA-based Multiprocessor 2006 ,		18
18	Structure and Dynamics of Extracellular Loops in Human Aquaporin-1 from Solid-State NMR and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 9887-902	3.4	18
17	Structural basis for voltage-sensor trapping of the cardiac sodium channel by a deathstalker scorpion toxin. <i>Nature Communications</i> , 2021 , 12, 128	17.4	18

16	Peptide Bond Isomerization in High-Temperature Simulations. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 1989-99	6.4	16
15	Solution NMR structure of yeast Rcf1, a protein involved in respiratory supercomplex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3048-3053	11.5	15
14	The basic residues in the Orai1 channel inner pore promote opening of the outer hydrophobic gate. <i>Journal of General Physiology</i> , 2020 , 152,	3.4	14
13	Substrate-Based Allosteric Regulation of a Homodimeric Enzyme. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11540-11556	16.4	13
12	Open-state structure and pore gating mechanism of the cardiac sodium channel. <i>Cell</i> , 2021 , 184, 5151-5162	16.2	11
11	A sulfur-aromatic gate latch is essential for opening of the Orai1 channel pore. <i>ELife</i> , 2020 , 9,	8.9	10
10	Mechanism of Amyloidogenesis of a Bacterial AAA+ Chaperone. <i>Structure</i> , 2016 , 24, 1095-109	5.2	9
9	Relay and blockage of protons in water chains. <i>Frontiers in Bioscience - Landmark</i> , 2003 , 8, d1288-97	2.8	8
8	NMR Structure and Dynamics Studies of Yeast Respiratory Supercomplex Factor 2. <i>Structure</i> , 2021 , 29, 275-283.e4	5.2	5
7	Molecular recognition and packing frustration in a helical protein. <i>PLoS Computational Biology</i> , 2017 , 13, e1005909	5	4
6	Identification of binding sites for ivacaftor on the cystic fibrosis transmembrane conductance regulator. <i>IScience</i> , 2021 , 24, 102542	6.1	4
5	Simulated tempering distributed replica sampling: A practical guide to enhanced conformational sampling. <i>Journal of Physics: Conference Series</i> , 2010 , 256, 012011	0.3	2
4	The evolutionary background and functional consequences of the rs2071307 polymorphism in human tropoelastin. <i>Biopolymers</i> , 2021 , 112, e23414	2.2	2
3	Structural ordering of the circumsporozoite protein repeats by inhibitory antibody 3D11. <i>ELife</i> , 2020 , 9,	8.9	1
2	The Liquid Structure of Elastin		1
1	Proton Relay in Membrane Proteins. <i>ACS Symposium Series</i> , 2004 , 159-173	0.4	