Hydrogen-Bonding and Packing Features of Membrane

Biophysical Journal
94, 1945-1953
DOI: 10.1529/biophysj.107.110395

Citation Report

#	Article	IF	Citations
1	Crystal structure of opsin in its G-protein-interacting conformation. Nature, 2008, 455, 497-502.	13.7	1,019
2	Ins and Outs of Major Facilitator Superfamily Antiporters. Annual Review of Microbiology, 2008, 62, 289-305.	2.9	431
3	Coils in the Membrane Core Are Conserved and Functionally Important. Journal of Molecular Biology, 2008, 380, 170-180.	2.0	34
4	Outer Membrane Phospholipase A Dimer Stability Does Not Correlate to Occluded Surface Area. Biochemistry, 2008, 47, 12095-12103.	1.2	4
5	Adaptive Threonine Increase in Transmembrane Regions of Mitochondrial Proteins in Higher Primates. PLoS ONE, 2008, 3, e3343.	1.1	17
6	Structural and kinetic modeling of an activating helix switch in the rhodopsin-transducin interface. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10660-10665.	3.3	47
7	Voronoia: analyzing packing in protein structures. Nucleic Acids Research, 2009, 37, D393-D395.	6.5	78
8	RHYTHM--a server to predict the orientation of transmembrane helices in channels and membrane-coils. Nucleic Acids Research, 2009, 37, W575-W580.	6.5	29
9	A G protein-coupled receptor at work: the rhodopsin model. Trends in Biochemical Sciences, 2009, 34, 540-552.	3.7	328
10	The Effect of Loops on the Structural Organization of Î±-Helical Membrane Proteins. Biophysical Journal, 2009, 96, 2299-2312.	0.2	27
11	Theoretical Analysis of the Contributions Made by CH••OH Bonds to Protein Structure. Current Organic Chemistry, 2010, 14, 106-128.	0.9	15
12	Effect of CHÂ·Â·Â·O hydrogen bond length on the geometric and spectroscopic features of the peptide unit of proteins. International Journal of Quantum Chemistry, 2010, 110, 2775-2783.	1.0	17
13	An intramembrane aromatic network determines pentameric assembly of Cys-loop receptors. Nature Structural and Molecular Biology, 2010, 17, 90-98.	3.6	86
14	Molecular Dynamics Simulation Studies of GLUT4: Substrate-Free and Substrate-Induced Dynamics and ATP-Mediated Glucose Transport Inhibition. PLoS ONE, 2010, 5, e14217.	1.1	24
15	MPlot--a server to analyze and visualize tertiary structure contacts and geometrical features of helical membrane proteins. Nucleic Acids Research, 2010, 38, W602-W608.	6.5	3
17	Mutational Analysis of Threonine 402 Adjacent to the GXXXG Dimerization Motif in Transmembrane Segment 1 of ABCG2. Biochemistry, 2010, 49, 2235-2245.	1.2	38
18	Membrane Protein Structure Determination. Methods in Molecular Biology, 2010, , .	0.4	7
19	An Introduction to Membrane Proteins. Journal of Proteome Research, 2011, 10, 3324-3331.	1.8	60

#	Article	IF	Citations
20	Stability of Mitochondrial Membrane Proteins in Terrestrial Vertebrates Predicts Aerobic Capacity and Longevity. Genome Biology and Evolution, 2011, 3, 1233-1244.	1.1	23
21	Membrane protein structural bioinformatics. Journal of Structural Biology, 2012, 179, 327-337.	1.3	41
22	Voronoia4RNAâ€”a database of atomic packing densities of RNA structures and their complexes. Nucleic Acids Research, 2012, 41, D280-D284.	6.5	4
23	A toolbox for developing bioinformatics software. Briefings in Bioinformatics, 2012, 13, 244-257.	3.2	20
24	Topology Mapping of Insulin-Regulated Glucose Transporter GLUT4 Using Computational Biology. Cell Biochemistry and Biophysics, 2013, 67, 1261-1274.	0.9	9
25	Structure and Mechanism of Cysteine Peptidase Gingipain K (Kgp), a Major Virulence Factor of Porphyromonas gingivalis in Periodontitis. Journal of Biological Chemistry, 2014, 289, 32291-32302.	1.6	74
26	MP:PDâ€”a data base of internal packing densities, internal packing defects and internal waters of helical membrane proteins. Nucleic Acids Research, 2014, 42, D347-D351.	6.5	10
27	Dynamic Behavior of the Active and Inactive States of the Adenosine A_{2A} Receptor. Journal of Physical Chemistry B, 2014, 118, 3355-3365.	1.2	23
28	Marginally hydrophobic transmembrane Î±â€helices shaping membrane protein folding. Protein Science, 2015, 24, 1057-1074.	3.1	25
29	The CHâ€¥O H-Bond as a Determining Factor in Molecular Structure. Challenges and Advances in Computational Chemistry and Physics, 2015, , 69-105.	0.6	3
30	Noncovalent Forces. Challenges and Advances in Computational Chemistry and Physics, 2015, , .	0.6	116
31	Structural Dynamics and Thermostabilization of Neurotensin Receptor 1. Journal of Physical Chemistry B, 2015, 119, 4917-4928.	1.2	31
32	Folding and stability of the aquaglyceroporin GlpF: Implications for human aqua(glycero)porin diseases. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 622-633.	1.4	14
33	Exploring the mechanism of F282L mutation-caused constitutive activity of GPCR by a computational study. Physical Chemistry Chemical Physics, 2016, 18, 29412-29422.	1.3	11
34	Vapor-phase synthesis of poly(p -xylylene) membranes for gas separations. Journal of Membrane Science, 2017, 539, 101-107.	4.1	6
35	Mitochondrial determinants of mammalian longevity. Open Biology, 2017, 7, 170083.	1.5	4
36	Structural basis for the interaction of the beta-secretase with copper. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1105-1113.	1.4	7
37	Functionalized polystyrene beads as carriers in release studies of two herbicides: 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid. International Journal of Environmental Science and Technology, 2019, 16, 5623-5634.	1.8	11

#	Article	IF	Citations
38	Terahertz Spectroscopy: An Investigation of the Structural Dynamics of Freeze-Dried Poly Lactic-co-glycolic Acid Microspheres. Pharmaceutics, 2019, 11, 291.	2.0	8
39	The construction of helicate metalâ€“organic nanotubes and enantioselective recognition. Journal of Materials Chemistry C, 2020, 8, 4453-4460.	2.7	12
40	Critical Review of General Guidelines for Membrane Proteins Model Building and Analysis. Methods in Molecular Biology, 2010, 654, 363-385.	0.4	3
41	Evolution of Mitochondrial Power in Vertebrate Metazoans. PLoS ONE, 2014, 9, e98188.	1.1	5
42	Identifying Native and Non-native Membrane Protein Loops by Using Stabilizing Energetic Terms of Three Popular Force Fields. Current Chinese Science, 2020, 1, 14-21.	0.2	2
43	Natural constraints, folding, motion, and structural stability in transmembrane helical proteins. , 2010, , 205-229.		0
45	Exploiting the fundamentals of biological organization for the advancement of biofabrication. Current Opinion in Biotechnology, 2022, 74, 42-54.	3.3	7
46	Expanding the Scope of Metastable Species in Hydrogen Bondingâ€Directed Supramolecular Polymerization. Angewandte Chemie - International Edition, 2022, 61, .	7.2	29
47	Erweiterung des Spektrums metastabiler Spezies in der durch Hâ€Bindungen gesteuerten supramolekularen Polymerisation. Angewandte Chemie, 2022, 134, .	1.6	2
48	Displacement Correlations in Disordered Athermal Networks. Journal of Statistical Physics, 2022, 189, .	0.5	3
49	GxxxG Motif Stabilize Ion-Channel like Pores through CÎ±â€•HÂ·Â·Â·O Interaction in AÎ² (1-40). International Journal of Molecular Sciences, 2023, 24, 2192.	1.8	3
50	Characterization of the Protein Corona of Three Chairside Hemoderivatives on Melt Electrowritten Polycaprolactone Scaffolds. International Journal of Molecular Sciences, 2023, 24, 6162.	1.8	0
51	The Nature of the Hydrogen Bond, from a Theoretical Perspective. , 2017, , 410-452.		1