Michael H B Stowell

List of Publications by Year in descending order

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MICHAEL H R STOWELL

#	Article	IF	CITATIONS
1	Redox-Dependent Structural Changes in the Nitrogenase P-Cluster,. Biochemistry, 1997, 36, 1181-1187.	2.5	498
2	GTPase activity of dynamin and resulting conformation change are essential for endocytosis. Nature, 2001, 410, 231-235.	27.8	428
3	Nucleotide-dependent conformational changes in dynamin: evidence for a mechanochemical molecular spring. Nature Cell Biology, 1999, 1, 27-32.	10.3	350
4	Exosomes and other extracellular vesicles in neural cells and neurodegenerative diseases. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1139-1151.	2.6	170
5	Structure of the Native Muscle-type Nicotinic Receptor and Inhibition by Snake Venom Toxins. Neuron, 2020, 106, 952-962.e5.	8.1	138
6	Cryo-EM structure of OSCA1.2 from <i>Oryza sativa</i> elucidates the mechanical basis of potential membrane hyperosmolality gating. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14309-14318.	7.1	71
7	Homotypic fibrillization of TMEM106B across diverse neurodegenerative diseases. Cell, 2022, 185, 1346-1355.e15.	28.9	70
8	Structure of Synaptophysin: A Hexameric MARVEL-Domain Channel Protein. Structure, 2007, 15, 707-714.	3.3	66
9	Coordinating the impact of structural genomics on the human α-helical transmembrane proteome. Nature Structural and Molecular Biology, 2013, 20, 135-138.	8.2	64
10	Rapid and simple protein-stability screens: application to membrane proteins. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 451-457.	2.5	60
11	A chemoselective biomolecular template for assembling diverse nanotubular materials. Nanotechnology, 2002, 13, 541-544.	2.6	52
12	Architecture of the Synaptophysin/Synaptobrevin Complex: Structural Evidence for an Entropic Clustering Function at the Synapse. Scientific Reports, 2015, 5, 13659.	3.3	52
13	A leucine-rich repeat variant with a novel repetitive protein structural motif. Nature Structural Biology, 1996, 3, 991-994.	9.7	49
14	An isothermal shift assay for proteome scale drug-target identification. Communications Biology, 2020, 3, 75.	4.4	46
15	Uncompetitive Substrate Inhibition and Noncompetitive Inhibition by 5-n-Undecyl-6-hydroxy-4,7-dioxobenzothiazole (UHDBT) and 2-n-Nonyl-4-hydroxyquinoline-N-oxide (NQNO) is Observed for the Cytochrome bo3 Complex:  Implications for a Q(H2)-Loop Proton Translocation Mechanism. Biochemistry. 1997. 36. 894-902.	2.5	43
16	Comparison of ubiquinol and cytochromecterminal oxidases. FEBS Letters, 1993, 327, 131-136.	2.8	40
17	Synergistic activation of the insulin receptor via two distinct sites. Nature Structural and Molecular Biology, 2022, 29, 357-368.	8.2	36
18	Efficient synthesis of photolabile alkoxy benzoin protecting groups. Tetrahedron Letters, 1996, 37, 307-310.	1.4	35

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19	Structural mechanism of muscle nicotinic receptor desensitization and block by curare. Nature Structural and Molecular Biology, 2022, 29, 386-394.	8.2	33
20	Pulse-Chase Proteomics of the App Knockin Mouse Models of Alzheimer's Disease Reveals that Synaptic Dysfunction Originates in Presynaptic Terminals. Cell Systems, 2021, 12, 141-158.e9.	6.2	32
21	SNARE zippering requires activation by SNARE-like peptides in Sec1/Munc18 proteins. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8421-E8429.	7.1	30
22	Synaptotagmin 17 controls neurite outgrowth and synaptic physiology via distinct cellular pathways. Nature Communications, 2019, 10, 3532.	12.8	26
23	Electron Paramagnetic Resonance Studies of Succinate:Ubiquinone Oxidoreductase from Paracoccus denitrificans. Journal of Biological Chemistry, 1997, 272, 19373-19382.	3.4	23
24	Intracellular Vesicle Fusion Requires a Membrane-Destabilizing Peptide Located at the Juxtamembrane Region of the v-SNARE. Cell Reports, 2019, 29, 4583-4592.e3.	6.4	21
25	The phosphonylphosphinyl dianion: A convenient synthon for the preparation of biologically interesting phosphonylphosphinyl (P-C-P-C) compounds. Tetrahedron Letters, 1989, 30, 411-414.	1.4	19
26	Transient electron-transfer studies on the two-subunit cytochrome c oxidase from Paracoccus denitrificans. The Journal of Physical Chemistry, 1993, 97, 3054-3057.	2.9	17
27	Self-assembled lipid and membrane protein polyhedral nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 670-674.	7.1	17
28	SNARE Zippering Is Suppressed by a Conformational Constraint that Is Removed by v-SNARE Splitting. Cell Reports, 2021, 34, 108611.	6.4	17
29	The mild preparation of synthetically useful phosphonic dichlorides: Application to the synthesis of cyclic phosphonic diesters and diamides. Tetrahedron Letters, 1990, 31, 3261-3262.	1.4	16
30	Selection of Membrane RNA Aptamers to Amyloid Beta Peptide: Implications for Exosome-Based Antioxidant Strategies. International Journal of Molecular Sciences, 2019, 20, 299.	4.1	15
31	Room for Two: The Synaptophysin/Synaptobrevin Complex. Frontiers in Synaptic Neuroscience, 2021, 13, 740318.	2.5	14
32	In vivo adsorption of autoantibodies in myasthenia gravis using Nanodisc-incorporated acetylcholine receptor. Experimental Neurology, 2010, 225, 320-327.	4.1	11
33	CytochromecOxidase: Chemistry of a Molecular Machine. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 71, 79-208.	1.3	10
34	Functional Reconstitution of Intracellular Vesicle Fusion Using Purified SNAREs and Sec1/Munc18 (SM) Proteins. Methods in Molecular Biology, 2019, 1860, 237-249.	0.9	10
35	On hip Acousto Thermal Shift Assay for Rapid and Sensitive Assessment of Protein Thermodynamic Stability. Small, 2020, 16, e2003506.	10.0	9
36	Purification of a native nicotinic receptor. Methods in Enzymology, 2021, 653, 189-206.	1.0	9

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37	Identification of the primary peptide contaminant that inhibits fibrillation and toxicity in synthetic amyloid-β42. PLoS ONE, 2017, 12, e0182804.	2.5	8
38	Multiomic Analysis Reveals Disruption of Cholesterol Homeostasis by Cannabidiol in Human Cell Lines. Molecular and Cellular Proteomics, 2022, 21, 100262.	3.8	8
39	Further comparison of ubiquinol and cytochromecterminal oxidases. FEBS Letters, 1993, 335, 296-298.	2.8	7
40	Design, Synthesis, and Photochemical Properties of a Photoreleasable Ubiquinol-2:Â A Novel Compound for Studying Rapid Electron-Transfer Kinetics in Ubiquinol-Oxidizing Enzymes. Journal of the American Chemical Society, 1998, 120, 1657-1664.	13.7	7
41	The N-peptide–binding mode is critical to Munc18-1 function in synaptic exocytosis. Journal of Biological Chemistry, 2018, 293, 18309-18317.	3.4	7
42	Shedding Light on the Use of Heat to Treat HIV Infections. Oncology, 1993, 50, 380-389.	1.9	6
43	Nitrobenzene "Caged" Compounds as Irreversible Photoreductants: A Rational Approach to Studying Photoinduced Intermolecular Electron-Transfer Reactions in Proteins. The Journal of Physical Chemistry, 1995, 99, 13038-13047.	2.9	6
44	Electron Tomographic Methods for Studying the Chemical Synapse. Methods in Cell Biology, 2007, 79, 241-257.	1.1	6
45	Effects of membrane-lipid composition on nascent protein translocation induced by heat and ethanol in Escherichia coli. Journal of Thermal Biology, 1994, 19, 111-122.	2.5	4
46	The functional significance of multimerization in ion channels. Current Opinion in Structural Biology, 1998, 8, 186-188.	5.7	3
47	Controlling nanoparticle aggregation in colloidal microwave absorbers via interface chemistry. , 2007, , .		3
48	Is There a Role for Hyperthermia in the Treatment of HIV Infection?. AIDS Patient Care and STDs, 1993, 7, 5-9.	0.1	2
49	Flattening of Diluted Species Profile via Passive Geometry in a Microfluidic Device. Micromachines, 2019, 10, 839.	2.9	2
50	A simple pressure cell and delivery system for the preparation of Xe derivatives for protein crystallography. Review of Scientific Instruments, 1996, 67, 3365-3365.	1.3	0
51	Microfluidic device for super-fast evaluation of membrane protein crystallization. , 2013, , .		0