

Michael H B Stowell

List of Publications by Year in descending order

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51
papers

2,680
citations

304602

22
h-index

206029

48
g-index

57
all docs

57
docs citations

57
times ranked

3088
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox-Dependent Structural Changes in the Nitrogenase P-Cluster,. <i>Biochemistry</i> , 1997, 36, 1181-1187.	1.2	498
2	GTPase activity of dynamin and resulting conformation change are essential for endocytosis. <i>Nature</i> , 2001, 410, 231-235.	13.7	428
3	Nucleotide-dependent conformational changes in dynamin: evidence for a mechanochemical molecular spring. <i>Nature Cell Biology</i> , 1999, 1, 27-32.	4.6	350
4	Exosomes and other extracellular vesicles in neural cells and neurodegenerative diseases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1139-1151.	1.4	170
5	Structure of the Native Muscle-type Nicotinic Receptor and Inhibition by Snake Venom Toxins. <i>Neuron</i> , 2020, 106, 952-962.e5.	3.8	138
6	Cryo-EM structure of OSCA1.2 from <i>Oryza sativa</i> elucidates the mechanical basis of potential membrane hyperosmolality gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14309-14318.	3.3	71
7	Homotypic fibrillization of TMEM106B across diverse neurodegenerative diseases. <i>Cell</i> , 2022, 185, 1346-1355.e15.	13.5	70
8	Structure of Synaptophysin: A Hexameric MARVEL-Domain Channel Protein. <i>Structure</i> , 2007, 15, 707-714.	1.6	66
9	Coordinating the impact of structural genomics on the human α -helical transmembrane proteome. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 135-138.	3.6	64
10	Rapid and simple protein-stability screens: application to membrane proteins. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 451-457.	2.5	60
11	A chemoselective biomolecular template for assembling diverse nanotubular materials. <i>Nanotechnology</i> , 2002, 13, 541-544.	1.3	52
12	Architecture of the Synaptophysin/Synaptobrevin Complex: Structural Evidence for an Entropic Clustering Function at the Synapse. <i>Scientific Reports</i> , 2015, 5, 13659.	1.6	52
13	A leucine-rich repeat variant with a novel repetitive protein structural motif. <i>Nature Structural Biology</i> , 1996, 3, 991-994.	9.7	49
14	An isothermal shift assay for proteome scale drug-target identification. <i>Communications Biology</i> , 2020, 3, 75.	2.0	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. <i>Biochemistry</i> , 1997, 36, 894-902.	1.2	43
16	Comparison of ubiquinol and cytochrometerminal oxidases. <i>FEBS Letters</i> , 1993, 327, 131-136.	1.3	40
17	Synergistic activation of the insulin receptor via two distinct sites. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 357-368.	3.6	36
18	Efficient synthesis of photolabile alkoxy benzoin protecting groups. <i>Tetrahedron Letters</i> , 1996, 37, 307-310.	0.7	35

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19	Structural mechanism of muscle nicotinic receptor desensitization and block by curare. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 386-394.	3.6	33
20	Pulse-Chase Proteomics of the App Knockin Mouse Models of Alzheimer's Disease Reveals that Synaptic Dysfunction Originates in Presynaptic Terminals. <i>Cell Systems</i> , 2021, 12, 141-158.e9.	2.9	32
21	SNARE zippering requires activation by SNARE-like peptides in Sec1/Munc18 proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8421-E8429.	3.3	30
22	Synaptotagmin 17 controls neurite outgrowth and synaptic physiology via distinct cellular pathways. <i>Nature Communications</i> , 2019, 10, 3532.	5.8	26
23	Electron Paramagnetic Resonance Studies of Succinate:Ubiquinone Oxidoreductase from <i>Paracoccus denitrificans</i> . <i>Journal of Biological Chemistry</i> , 1997, 272, 19373-19382.	1.6	23
24	Intracellular Vesicle Fusion Requires a Membrane-Destabilizing Peptide Located at the Juxtamembrane Region of the v-SNARE. <i>Cell Reports</i> , 2019, 29, 4583-4592.e3.	2.9	21
25	The phosphorylphosphinyl dianion: A convenient synthon for the preparation of biologically interesting phosphorylphosphinyl (P-C-P-C) compounds. <i>Tetrahedron Letters</i> , 1989, 30, 411-414.	0.7	19
26	Transient electron-transfer studies on the two-subunit cytochrome c oxidase from <i>Paracoccus denitrificans</i> . <i>The Journal of Physical Chemistry</i> , 1993, 97, 3054-3057.	2.9	17
27	Self-assembled lipid and membrane protein polyhedral nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 670-674.	3.3	17
28	SNARE Zippering Is Suppressed by a Conformational Constraint that Is Removed by v-SNARE Splitting. <i>Cell Reports</i> , 2021, 34, 108611.	2.9	17
29	The mild preparation of synthetically useful phosphonic dichlorides: Application to the synthesis of cyclic phosphonic diesters and diamides. <i>Tetrahedron Letters</i> , 1990, 31, 3261-3262.	0.7	16
30	Selection of Membrane RNA Aptamers to Amyloid Beta Peptide: Implications for Exosome-Based Antioxidant Strategies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 299.	1.8	15
31	Room for Two: The Synaptophysin/Synaptobrevin Complex. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 740318.	1.3	14
32	In vivo adsorption of autoantibodies in myasthenia gravis using Nanodisc-incorporated acetylcholine receptor. <i>Experimental Neurology</i> , 2010, 225, 320-327.	2.0	11
33	CytochromecOxidase: Chemistry of a Molecular Machine. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2006, 71, 79-208.	1.3	10
34	Functional Reconstitution of Intracellular Vesicle Fusion Using Purified SNAREs and Sec1/Munc18 (SM) Proteins. <i>Methods in Molecular Biology</i> , 2019, 1860, 237-249.	0.4	10
35	On-Chip Acousto Thermal Shift Assay for Rapid and Sensitive Assessment of Protein Thermodynamic Stability. <i>Small</i> , 2020, 16, e2003506.	5.2	9
36	Purification of a native nicotinic receptor. <i>Methods in Enzymology</i> , 2021, 653, 189-206.	0.4	9

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37	Identification of the primary peptide contaminant that inhibits fibrillation and toxicity in synthetic amyloid- β 42. PLoS ONE, 2017, 12, e0182804.	1.1	8
38	Multiomic Analysis Reveals Disruption of Cholesterol Homeostasis by Cannabidiol in Human Cell Lines. Molecular and Cellular Proteomics, 2022, 21, 100262.	2.5	8
39	Further comparison of ubiquinol and cytochrometerminal oxidases. FEBS Letters, 1993, 335, 296-298.	1.3	7
40	Design, Synthesis, and Photochemical Properties of a Photoreleasable Ubiquinol-2: A Novel Compound for Studying Rapid Electron-Transfer Kinetics in Ubiquinol-Oxidizing Enzymes. Journal of the American Chemical Society, 1998, 120, 1657-1664.	6.6	7
41	The N-peptide binding mode is critical to Munc18-1 function in synaptic exocytosis. Journal of Biological Chemistry, 2018, 293, 18309-18317.	1.6	7
42	Shedding Light on the Use of Heat to Treat HIV Infections. Oncology, 1993, 50, 380-389.	0.9	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.	0.5	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.	1.1	4
46	The functional significance of multimerization in ion channels. Current Opinion in Structural Biology, 1998, 8, 186-188.	2.6	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.	0.2	2
49	Flattening of Diluted Species Profile via Passive Geometry in a Microfluidic Device. Micromachines, 2019, 10, 839.	1.4	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.	0.6	0
51	Microfluidic device for super-fast evaluation of membrane protein crystallization. , 2013, , .		0