Stephen Muench

List of Publications by Citations

Source: https://exaly.com/author-pdf/894591/stephen-muench-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

106 56 29 3,523 h-index g-index citations papers 6.9 122 4,302 5.47 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
106	Polymer-Based Organic Batteries. <i>Chemical Reviews</i> , 2016 , 116, 9438-84	68.1	677
105	A method for detergent-free isolation of membrane proteins in their local lipid environment. <i>Nature Protocols</i> , 2016 , 11, 1149-62	18.8	237
104	Triclosan inhibits the growth of Plasmodium falciparum and Toxoplasma gondii by inhibition of apicomplexan Fab I. <i>International Journal for Parasitology</i> , 2001 , 31, 109-13	4.3	175
103	An introduction to sample preparation and imaging by cryo-electron microscopy for structural biology. <i>Methods</i> , 2016 , 100, 3-15	4.6	136
102	Cryo-EM structures of complex I from mouse heart mitochondria in two biochemically defined states. <i>Nature Structural and Molecular Biology</i> , 2018 , 25, 548-556	17.6	124
101	The use of SMALPs as a novel membrane protein scaffold for structure study by negative stain electron microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 496-501	3.8	116
100	Structural divergence of the rotary ATPases. <i>Quarterly Reviews of Biophysics</i> , 2011 , 44, 311-56	7	106
99	Replace, reuse, recycle: improving the sustainable use of phosphorus by plants. <i>Journal of Experimental Botany</i> , 2015 , 66, 3523-40	7	92
98	Cryo-electron microscopy of the vacuolar ATPase motor reveals its mechanical and regulatory complexity. <i>Journal of Molecular Biology</i> , 2009 , 386, 989-99	6.5	87
97	Maternal inheritance and stage-specific variation of the apicoplast in Toxoplasma gondii during development in the intermediate and definitive host. <i>Eukaryotic Cell</i> , 2005 , 4, 814-26		74
96	Using a SMALP platform to determine a sub-nm single particle cryo-EM membrane protein structure. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 378-383	3.8	73
95	Delivery of antimicrobials into parasites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 14281-6	11.5	65
94	Structural Insight into Eukaryotic Sterol Transport through Niemann-Pick Type C Proteins. <i>Cell</i> , 2019 , 179, 485-497.e18	56.2	61
93	Identification of T. gondii epitopes, adjuvants, and host genetic factors that influence protection of mice and humans. <i>Vaccine</i> , 2010 , 28, 3977-89	4.1	59
92	Approaches to altering particle distributions in cryo-electron microscopy sample preparation. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018 , 74, 560-571	5.5	59
91	Durable proteo-hybrid vesicles for the extended functional lifetime of membrane proteins in bionanotechnology. <i>Chemical Communications</i> , 2016 , 52, 11020-3	5.8	52
90	A cryo-EM grid preparation device for time-resolved structural studies. <i>IUCrJ</i> , 2019 , 6, 1024-1031	4.7	42

(2003-2008)

89	Novel triazine JPC-2067-B inhibits Toxoplasma gondii in vitro and in vivo. <i>PLoS Neglected Tropical Diseases</i> , 2008 , 2, e190	4.8	42
88	Archazolid A binds to the equatorial region of the c-ring of the vacuolar H+-ATPase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 38304-14	5.4	40
87	Identification and development of novel inhibitors of Toxoplasma gondii enoyl reductase. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 6287-300	8.3	40
86	Durable vesicles for reconstitution of membrane proteins in biotechnology. <i>Biochemical Society Transactions</i> , 2017 , 45, 15-26	5.1	39
85	Non-synonymous single nucleotide polymorphisms in the P2X receptor genes: association with diseases, impact on receptor functions and potential use as diagnosis biomarkers. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 13344-71	6.3	38
84	Enzymes of type II fatty acid synthesis and apicoplast differentiation and division in Eimeria tenella. <i>International Journal for Parasitology</i> , 2007 , 37, 33-51	4.3	36
83	The changing landscape of membrane protein structural biology through developments in electron microscopy. <i>Molecular Membrane Biology</i> , 2016 , 33, 12-22	3.4	34
82	Studies of Toxoplasma gondii and Plasmodium falciparum enoyl acyl carrier protein reductase and implications for the development of antiparasitic agents. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 328-38		34
81	The essential GTPase YphC displays a major domain rearrangement associated with nucleotide binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 123	5 9-6 4	34
80	Extracellular and Luminal pH Regulation by Vacuolar H+-ATPase Isoform Expression and Targeting to the Plasma Membrane and Endosomes. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8500-15	5.4	30
79	The varied functions of aluminium-activated malate transporters-much more than aluminium resistance. <i>Biochemical Society Transactions</i> , 2016 , 44, 856-62	5.1	30
78	Structure of the vacuolar H+-ATPase rotary motor reveals new mechanistic insights. <i>Structure</i> , 2015 , 23, 461-471	5.2	29
77	The expanding toolkit for structural biology: synchrotrons, X-ray lasers and cryoEM. <i>IUCrJ</i> , 2019 , 6, 167-	1 <i>4</i> 7. 7 7	27
76	TRPA1-FGFR2 binding event is a regulatory oncogenic driver modulated by miRNA-142-3p. <i>Nature Communications</i> , 2017 , 8, 947	17.4	26
<i>75</i>	Novel N-benzoyl-2-hydroxybenzamide disrupts unique parasite secretory pathway. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 2666-82	5.9	26
74	AtSPX1 affects the AtPHR1-DNA-binding equilibrium by binding monomeric AtPHR1 in solution. <i>Biochemical Journal</i> , 2017 , 474, 3675-3687	3.8	25
73	Molecular basis for resistance of acanthamoeba tubulins to all major classes of antitubulin compounds. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 1133-5	5.9	25
72	Expression, purification and crystallization of the Plasmodium falciparum enoyl reductase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1246-8		24

71	Need for Speed: Examining Protein Behavior during CryoEM Grid Preparation at Different Timescales. <i>Structure</i> , 2020 , 28, 1238-1248.e4	5.2	24
70	PA1b inhibitor binding to subunits c and e of the vacuolar ATPase reveals its insecticidal mechanism. <i>Journal of Biological Chemistry</i> , 2014 , 289, 16399-408	5.4	22
69	T. gondii RP promoters & knockdown reveal molecular pathways associated with proliferation and cell-cycle arrest. <i>PLoS ONE</i> , 2010 , 5, e14057	3.7	22
68	Type I and type II fatty acid biosynthesis in Eimeria tenella: enoyl reductase activity and structure. <i>Parasitology</i> , 2007 , 134, 1949-62	2.7	22
67	Structural Basis for Vascular Endothelial Growth Factor Receptor Activation and Implications for Disease Therapy. <i>Biomolecules</i> , 2020 , 10,	5.9	22
66	A reconstitution method for integral membrane proteins in hybrid lipid-polymer vesicles for enhanced functional durability. <i>Methods</i> , 2018 , 147, 142-149	4.6	21
65	ALOX12 in human toxoplasmosis. <i>Infection and Immunity</i> , 2014 , 82, 2670-9	3.7	21
64	Elucidating the structural basis for differing enzyme inhibitor potency by cryo-EM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1795-1800	11.5	20
63	Subunit positioning and stator filament stiffness in regulation and power transmission in the V1 motor of the Manduca sexta V-ATPase. <i>Journal of Molecular Biology</i> , 2014 , 426, 286-300	6.5	20
62	New paradigms for understanding and step changes in treating active and chronic, persistent apicomplexan infections. <i>Scientific Reports</i> , 2016 , 6, 29179	4.9	20
61	Artificial membranes for membrane protein purification, functionality and structure studies. <i>Biochemical Society Transactions</i> , 2016 , 44, 877-82	5.1	20
60	Docking of competitive inhibitors to the P2X7 receptor family reveals key differences responsible for changes in response between rat and human. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3164-7	2.9	19
59	Design, synthesis, and biological activity of diaryl ether inhibitors of Toxoplasma gondii enoyl reductase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 2035-43	2.9	19
58	Modification of triclosan scaffold in search of improved inhibitors for enoyl-acyl carrier protein (ACP) reductase in Toxoplasma gondii. <i>ChemMedChem</i> , 2013 , 8, 1138-60	3.7	19
57	The Acanthamoeba shikimate pathway has a unique molecular arrangement and is essential for aromatic amino acid biosynthesis. <i>Protist</i> , 2015 , 166, 93-105	2.5	18
56	Methods to account for movement and flexibility in cryo-EM data processing. <i>Methods</i> , 2016 , 100, 35-4	14.6	18
55	The Vacuolar ATPase - A Nano-scale Motor That Drives Cell Biology. <i>Sub-Cellular Biochemistry</i> , 2018 , 87, 409-459	5.5	17
54	In situ formation of magnetopolymersomes via electroporation for MRI. <i>Scientific Reports</i> , 2015 , 5, 143	1 <u>1</u> 4.9	17

(2006-2014)

53	Spiroindolone that inhibits PfATPase4 is a potent, cidal inhibitor of Toxoplasma gondii tachyzoites in vitro and in vivo. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 1789-92	5.9	17
52	Structure-based identification and characterisation of structurally novel human P2X7 receptor antagonists. <i>Biochemical Pharmacology</i> , 2016 , 116, 130-9	6	17
51	Cryo-EM Structure and Molecular Dynamics Analysis of the Fluoroquinolone Resistant Mutant of the AcrB Transporter from. <i>Microorganisms</i> , 2020 , 8,	4.9	16
50	The conservation of phosphate-binding residues among PHT1 transporters suggests that distinct transport affinities are unlikely to result from differences in the phosphate-binding site. Biochemical Society Transactions, 2016, 44, 1541-1548	5.1	15
49	X-ray and cryo-EM structures of inhibitor-bound cytochrome complexes for structure-based drug discovery. <i>IUCrJ</i> , 2018 , 5, 200-210	4.7	14
48	Pi sensing and signalling: from prokaryotic to eukaryotic cells. <i>Biochemical Society Transactions</i> , 2016 , 44, 766-73	5.1	14
47	Mechanism of inhibition of mouse Slo3 (KCa 5.1) potassium channels by quinine, quinidine and barium. <i>British Journal of Pharmacology</i> , 2015 , 172, 4355-63	8.6	13
46	Flexibility within the rotor and stators of the vacuolar H+-ATPase. <i>PLoS ONE</i> , 2013 , 8, e82207	3.7	13
45	Sample deposition onto cryo-EM grids: from sprays to jets and back. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020 , 76, 340-349	5.5	12
44	Human TRPC5 structures reveal interaction of a xanthine-based TRPC1/4/5 inhibitor with a conserved lipid binding site. <i>Communications Biology</i> , 2020 , 3, 704	6.7	12
43	Understanding the apparent stator-rotor connections in the rotary ATPase family using coarse-grained computer modeling. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 3298-311	4.2	11
42	Development of a triclosan scaffold which allows for adaptations on both the A- and B-ring for transport peptides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 3551-5	2.9	11
41	LAT1 (SLC7A5) and CD98hc (SLC3A2) complex dynamics revealed by single-particle cryo-EM. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019 , 75, 660-669	5.5	11
40	Unprecedented Properties of Phenothiazines Unraveled by a NDH-2 Bioelectrochemical Assay Platform. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1311-1320	16.4	11
39	SMA-PAGE: A new method to examine complexes of membrane proteins using SMALP nano-encapsulation and native gel electrophoresis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 1437-1445	3.8	10
38	Styrene maleic-acid lipid particles (SMALPs) into detergent or amphipols: An exchange protocol for membrane protein characterisation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183192	3.8	10
37	Substrate polyspecificity and conformational relevance in ABC transporters: new insights from structural studies. <i>Biochemical Society Transactions</i> , 2018 , 46, 1475-1484	5.1	10
36	Expression, purification and preliminary crystallographic analysis of the Toxoplasma gondii enoyl reductase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 604-6		9

35	Structure-Based Identification and Characterization of Inhibitors of the Epilepsy-Associated K1.1 (KCNT1) Potassium Channel. <i>IScience</i> , 2020 , 23, 101100	6.1	8
34	Discrimination of potent inhibitors of Toxoplasma gondii enoyl-acyl carrier protein reductase by a thermal shift assay. <i>Biochemistry</i> , 2013 , 52, 9155-66	3.2	8
33	CSGID Solves Structures and Identifies Phenotypes for Five Enzymes in. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018 , 8, 352	5.9	8
32	Rotating with the brakes on and other unresolved features of the vacuolar ATPase. <i>Biochemical Society Transactions</i> , 2016 , 44, 851-5	5.1	7
31	Dimeric structures of quinol-dependent nitric oxide reductases (qNORs) revealed by cryo-electron microscopy. <i>Science Advances</i> , 2019 , 5, eaax1803	14.3	7
30	Potent Tetrahydroquinolone Eliminates Apicomplexan Parasites. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 203	5.9	6
29	Conformational changes during human P2X7 receptor activation examined by structural modelling and cysteine-based cross-linking studies. <i>Purinergic Signalling</i> , 2017 , 13, 135-141	3.8	6
28	The potential use of single-particle electron microscopy as a tool for structure-based inhibitor design. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017 , 73, 534-540	5.5	5
27	The active form of quinol-dependent nitric oxide reductase from is a dimer. <i>IUCrJ</i> , 2020 , 7, 404-415	4.7	5
26	Structure of the endocytic adaptor complex reveals the basis for efficient membrane anchoring during clathrin-mediated endocytosis. <i>Nature Communications</i> , 2021 , 12, 2889	17.4	5
25	Structure of the protective nematode protease complex H-gal-GP and its conservation across roundworm parasites. <i>PLoS Pathogens</i> , 2020 , 16, e1008465	7.6	5
24	Cryo-EM structure of human mitochondrial HSPD1. <i>IScience</i> , 2021 , 24, 102022	6.1	5
23	Spherical-supported membranes as platforms for screening against membrane protein targets. <i>Analytical Biochemistry</i> , 2018 , 549, 58-65	3.1	4
22	The benzimidazole based drugs show good activity against T. gondii but poor activity against its proposed enoyl reductase enzyme target. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 911-6	2.9	4
21	Xanthine-based photoaffinity probes allow assessment of ligand engagement by TRPC5 channels. <i>RSC Chemical Biology</i> , 2020 , 1, 436-448	3	4
20	Emerging Role of Electron Microscopy in Drug Discovery. <i>Trends in Biochemical Sciences</i> , 2019 , 44, 897-8	3 98 .3	3
19	Cloning, purification and preliminary crystallographic analysis of the Bacillus subtilis GTPase YphC-GDP complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 435-7	7	3
18	Cryo-EM structures of human TRPC5 reveal interaction of a xanthine-based TRPC1/4/5 inhibitor with a conserved lipid binding site		3

17	A Cryo-EM Grid Preparation Device for Time-Resolved Structural Studies		2
16	Contribution of Val/Ile87 residue in the extracellular domain in agonist-induced current responses of the human and rat P2X7 receptors. <i>Purinergic Signalling</i> , 2020 , 16, 485-490	3.8	2
15	Characterization of the flexibility of the peripheral stalk of prokaryotic rotary A-ATPases by atomistic simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 1203-12	4.2	2
14	Cycloalkane-modified amphiphilic polymers provide direct extraction of membrane proteins for CryoEM analysis		2
13	On-grid and in-flow mixing for time-resolved cryo-EM. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021 , 77, 1233-1240	5.5	2
12	No Longer Hidden Secrets of Proton Pumping: The Resolution Revolution Enlightens V-ATPases. <i>Molecular Cell</i> , 2018 , 69, 921-922	17.6	1
11	Crystallization and preliminary X-ray crystallographic studies on the class II cholesterol oxidase from Burkholderia cepacia containing bound flavin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002 , 58, 2182-3		1
10	Cycloalkane-modified amphiphilic polymers provide direct extraction of membrane proteins for CryoEM analysis. <i>Communications Biology</i> , 2021 , 4, 1337	6.7	1
9	The Growing Role of Electron Microscopy in Anti-parasitic Drug Discovery. <i>Current Medicinal Chemistry</i> , 2018 , 25, 5279-5290	4.3	1
8	Need for speed: Examining protein behaviour during cryoEM grid preparation at different timescales		1
7	Styrene maleic acid recovers proteins from mammalian cells and tissues while avoiding significant cell death. <i>Scientific Reports</i> , 2019 , 9, 16408	4.9	1
6	Targeting K1.1 channels in KCNT1-associated epilepsy. <i>Trends in Pharmacological Sciences</i> , 2021 , 42, 70	0-731:3	1
5	Detergent-Free Functionalization of Hybrid Vesicles with Membrane Proteins Using SMALPs <i>Macromolecules</i> , 2022 , 55, 3415-3422	5.5	1
4	Recent developments in the structural characterisation of the IR and IGF1R: implications for the design of IR I GF1R hybrid receptor modulators. <i>RSC Medicinal Chemistry</i> ,	3.5	O
3	A Tribute to Stephen Allan Baldwin. <i>Molecular Membrane Biology</i> , 2015 , 32, 33-4	3.4	
2	Everyone needs good neighbours - the intricate relationship between the acetylcholine-receptor channel and its membrane environment. <i>IUCrJ</i> , 2017 , 4, 306-307	4.7	
1	Moving in the mesoscale: Understanding the mechanics of cytoskeletal molecular motors by combining mesoscale simulations with imaging. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> ,e1570	7.9	