

Elisabeth Paula Carpenter

List of Publications by Year in descending order

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43
papers

3,965
citations

136740

32
h-index

253896

43
g-index

53
all docs

53
docs citations

53
times ranked

5446
citing authors

#	ARTICLE	IF	CITATIONS
1	Overcoming the challenges of membrane protein crystallography. <i>Current Opinion in Structural Biology</i> , 2008, 18, 581-586.	2.6	419
2	Structure and Molecular Mechanism of a Nucleobase-Dependent Symport-1 Family Transporter. <i>Science</i> , 2008, 322, 709-713.	6.0	347
3	Crystal structure of a prokaryotic homologue of the mammalian oligopeptide-proton symporters, PepT1 and PepT2. <i>EMBO Journal</i> , 2011, 30, 417-426.	3.5	269
4	MemProtMD: Automated Insertion of Membrane Protein Structures into Explicit Lipid Membranes. <i>Structure</i> , 2015, 23, 1350-1361.	1.6	257
5	K2P channel gating mechanisms revealed by structures of TREK-2 and a complex with Prozac. <i>Science</i> , 2015, 347, 1256-1259.	6.0	255
6	Structures of ABCB10, a human ATP-binding cassette transporter in apo- and nucleotide-bound states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9710-9715.	3.3	219
7	Structural and functional diversity calls for a new classification of ABC transporters. <i>FEBS Letters</i> , 2020, 594, 3767-3775.	1.3	169
8	Structure of the polycystic kidney disease TRP channel Polycystin-2 (PC2). <i>Nature Structural and Molecular Biology</i> , 2017, 24, 114-122.	3.6	155
9	Structure of dehydroquinase synthase reveals an active site capable of multistep catalysis. <i>Nature</i> , 1998, 394, 299-302.	13.7	134
10	Protein farnesyl and N-myristoyl transferases: piggy-back medicinal chemistry targets for the development of antitrypanosomatid and antimalarial therapeutics. <i>Molecular and Biochemical Parasitology</i> , 2003, 126, 155-163.	0.5	126
11	Molecular insights into lipid-assisted Ca ²⁺ regulation of the TRP channel Polycystin-2. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 123-130.	3.6	105
12	The structural basis of lipid scrambling and inactivation in the endoplasmic reticulum scramblase TMEM16K. <i>Nature Communications</i> , 2019, 10, 3956.	5.8	101
13	Atomic resolution insight into host cell recognition by <i>Toxoplasma gondii</i> . <i>EMBO Journal</i> , 2007, 26, 2808-2820.	3.5	98
14	A pharmacological master key mechanism that unlocks the selectivity filter gate in K ⁺ channels. <i>Science</i> , 2019, 363, 875-880.	6.0	91
15	The Structural Basis of ZMPSTE24-Dependent Laminopathies. <i>Science</i> , 2013, 339, 1604-1607.	6.0	89
16	Structures of DPAGT1 Explain Glycosylation Disease Mechanisms and Advance TB Antibiotic Design. <i>Cell</i> , 2018, 175, 1045-1058.e16.	13.5	67
17	Polymodal activation of the TREK-2 K2P channel produces structurally distinct open states. <i>Journal of General Physiology</i> , 2016, 147, 497-505.	0.9	65
18	Bilayer-Mediated Structural Transitions Control Mechanosensitivity of the TREK-2 K2P Channel. <i>Structure</i> , 2017, 25, 708-718.e2.	1.6	64

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19	Mass spectrometry captures off-target drug binding and provides mechanistic insights into the human metalloprotease ZMPSTE24. <i>Nature Chemistry</i> , 2016, 8, 1152-1158.	6.6	61
20	Structure of a central stalk subunit F of prokaryotic V-type ATPase/synthase from <i>Thermus thermophilus</i> . <i>EMBO Journal</i> , 2005, 24, 3974-3983.	3.5	53
21	Mammalian Glucose Transporter Activity Is Dependent upon Anionic and Conical Phospholipids. <i>Journal of Biological Chemistry</i> , 2016, 291, 17271-17282.	1.6	53
22	A lower X-gate in TASK channels traps inhibitors within the vestibule. <i>Nature</i> , 2020, 582, 443-447.	13.7	53
23	A Comparative Study of Uracil-DNA Glycosylases from Human and Herpes Simplex Virus Type 1. <i>Journal of Biological Chemistry</i> , 2006, 281, 4983-4992.	1.6	52
24	The structural basis of fatty acid elongation by the ELOVL elongases. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 512-520.	3.6	52
25	Structures and functions of mitochondrial ABC transporters. <i>Biochemical Society Transactions</i> , 2015, 43, 943-951.	1.6	50
26	Crystal Structure of the Acid-Induced Arginine Decarboxylase from <i>Escherichia coli</i> : Reversible Decamer Assembly Controls Enzyme Activity. <i>Biochemistry</i> , 2009, 48, 3915-3927.	1.2	48
27	AP endonuclease paralogues with distinct activities in DNA repair and bacterial pathogenesis. <i>EMBO Journal</i> , 2007, 26, 1363-1372.	3.5	47
28	Four Distinct Structural Domains in <i>Clostridium difficile</i> Toxin B Visualized Using SAXS. <i>Journal of Molecular Biology</i> , 2010, 396, 1260-1270.	2.0	46
29	Asymmetric mechanosensitivity in a eukaryotic ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8343-E8351.	3.3	45
30	Insights into How Nucleotide-Binding Domains Power ABC Transport. <i>Structure</i> , 2009, 17, 1213-1222.	1.6	40
31	An overview of heavy-atom derivatization of protein crystals. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 303-318.	1.1	40
32	Insights into outer membrane protein crystallization. <i>Molecular Membrane Biology</i> , 2008, 25, 631-638.	2.0	37
33	Lipid Interactions of a Ciliary Membrane TRP Channel: Simulation and Structural Studies of Polycystin-2. <i>Structure</i> , 2020, 28, 169-184.e5.	1.6	37
34	Purification and interaction analyses of two human lysosomal vitamin B ₁₂ transporters: LMBD1 and ABCD4. <i>Molecular Membrane Biology</i> , 2014, 31, 250-261.	2.0	31
35	ABCB10 exports mitochondrial biliverdin, driving metabolic maladaptation in obesity. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	27
36	High-performance liquid chromatography separation and intact mass analysis of detergent-solubilized integral membrane proteins. <i>Analytical Biochemistry</i> , 2011, 410, 272-280.	1.1	24

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37	<i>ZMPSTE24</i> missense mutations that cause progeroid diseases decrease prelamin A cleavage activity and/or protein stability. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	1.2	24
38	Thioredoxin A Active-Site Mutants Form Mixed Disulfide Dimers That Resemble Enzyme-Substrate Reaction Intermediates. <i>Journal of Molecular Biology</i> , 2008, 379, 520-534.	2.0	20
39	Structural basis for the recognition and cleavage of abasic DNA in <i>Neisseria meningitidis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16852-16857.	3.3	19
40	Norfluoxetine inhibits TREK-2 K2P channels by multiple mechanisms including state-independent effects on the selectivity filter gate. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	17
41	The SGC beyond structural genomics: redefining the role of 3D structures by coupling genomic stratification with fragment-based discovery. <i>Essays in Biochemistry</i> , 2017, 61, 495-503.	2.1	12
42	Site specificity determinants for prelamin A cleavage by the zinc metalloprotease ZMPSTE24. <i>Journal of Biological Chemistry</i> , 2021, 296, 100165.	1.6	12
43	Targeted next generation sequencing identifies a genetic spectrum of DNA variants in patients with hemiplegic migraine. <i>Cephalalgia Reports</i> , 2019, 2, 251581631988163.	0.2	8