Susan K Buchanan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2230549/publications.pdf

Version: 2024-02-01

70 papers	6,668 citations	126907 33 h-index	98798 67 g-index
79 all docs	79 docs citations	79 times ranked	6580 citing authors

#	Article	IF	Citations
1	The Ton Motor. Frontiers in Microbiology, 2022, 13, 852955.	3.5	20
2	Mechanistic insights into fungal mitochondrial outer membrane protein biogenesis. Current Opinion in Structural Biology, 2022, 74, 102383.	5.7	2
3	Inâ€depth interrogation of protein thermal unfolding data with <scp>MoltenProt</scp>. Protein Science, 2021, 30, 201-217.	7.6	36
4	Ton motor complexes. Current Opinion in Structural Biology, 2021, 67, 95-100.	5.7	22
5	A Biochemical and Structural Understanding of TOM Complex Interactions and Implications for Human Health and Disease. Cells, 2021, 10, 1164.	4.1	14
6	The Role of Voltage-Dependent Anion Channel in Mitochondrial Dysfunction and Human Disease. Cells, 2021, 10, 1737.	4.1	26
7	Building Better Barrels â€“ Î²-barrel Biogenesis and Insertion in Bacteria and Mitochondria. Journal of Molecular Biology, 2021, 433, 166894.	4.2	22
8	Protein import and export across the bacterial outer membrane. Current Opinion in Structural Biology, 2021, 69, 55-62.	5.7	6
9	Structural insight into mitochondrial Î²-barrel outer membrane protein biogenesis. Nature Communications, 2020, 11, 3290.	12.8	48
10	Structure and Stoichiometry of the Ton Molecular Motor. International Journal of Molecular Sciences, 2020, 21, 375.	4.1	36
11	Structural insight into toxin secretion by contact-dependent growth inhibition transporters. ELife, 2020, 9, .	6.0	14
12	Cloning and Multi-Subunit Expression of Mitochondrial Membrane Protein Complexes in Saccharomyces cerevisiae. Methods in Molecular Biology, 2020, 2127, 1-11.	0.9	1
13	Cryo-EM structure of the bacterial Ton motor subcomplex ExbBâ€“ExbD provides information on structure and stoichiometry. Communications Biology, 2019, 2, 358.	4.4	60
14	The ColM Family, Polymorphic Toxins Breaching the Bacterial Cell Wall. MBio, 2018, 9, .	4.1	13
15	Hitting with a BAM: Selective Killing by Lectin-Like Bacteriocins. MBio, 2018, 9, .	4.1	48
16	Structural and functional insights into the role of BamD and BamE within the Î²-barrel assembly machinery in Neisseria gonorrhoeae. Journal of Biological Chemistry, 2018, 293, 1106-1119.	3.4	36
17	Structure of voltage-dependent anion channel-tethered bilayer lipid membranes determined using neutron reflectivity. Acta Crystallographica Section D: Structural Biology, 2018, 74, 1219-1232.	2.3	9
18	A Natural ChimericPseudomonasBacteriocin with Novel Pore-Forming Activity Parasitizes the Ferrichrome Transporter. MBio, 2017, 8, .	4.1	24

#	Article	IF	Citations
19	The Î²-barrel assembly machinery in motion. Nature Reviews Microbiology, 2017, 15, 197-204.	28.6	174
20	Insertion of proteins and lipopolysaccharide into the bacterial outer membrane. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160224.	4.0	40
21	Structural snapshots of the Î²â€barrel assembly machinery. FEBS Journal, 2017, 284, 1778-1786.	4.7	7
22	Two-Partner Secretion: Combining Efficiency and Simplicity in the Secretion of Large Proteins for Bacteria-Host and Bacteria-Bacteria Interactions. Frontiers in Cellular and Infection Microbiology, 2017, 7, 148.	3.9	92
23	Structural and Functional Characterization of the LPS Transporter LptDE from Gram-Negative Pathogens. Structure, 2016, 24, 965-976.	3.3	110
24	Structure of the NPr:EINNtr Complex: Mechanism for Specificity in Paralogous Phosphotransferase Systems. Structure, 2016, 24, 2127-2137.	3.3	16
25	Structural Insights into Substrate Recognition and Catalysis in Outer Membrane Protein B (OmpB) by Protein-lysine Methyltransferases from Rickettsia. Journal of Biological Chemistry, 2016, 291, 19962-19974.	3.4	18
26	Structural insight into the role of the Ton complex in energy transduction. Nature, 2016, 538, 60-65.	27.8	142
27	From Constructs to Crystals – Towards Structure Determination of β-barrel Outer Membrane Proteins. Journal of Visualized Experiments, 2016, , .	0.3	5
28	The structure of the Î²-barrel assembly machinery complex. Science, 2016, 351, 180-186.	12.6	209
29	The Î²-barrel membrane protein insertase machinery from Gram-negative bacteria. Current Opinion in Structural Biology, 2015, 31, 35-42.	5.7	80
30	Outer membrane protein biogenesis in Gram-negative bacteria. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150023.	4.0	198
31	Fitting the Pieces of the Î²-Barrel Assembly Machinery Complex. Biochemistry, 2015, 54, 6303-6311.	2.5	30
32	Evidence of Distinct Channel Conformations and Substrate Binding Affinities for the Mitochondrial Outer Membrane Protein Translocase Pore Tom40. Journal of Biological Chemistry, 2015, 290, 26204-26217.	3.4	30
33	Beyond the Crystal Structure: Insight into the Function and Vaccine Potential of TbpA Expressed by Neisseria gonorrhoeae. Infection and Immunity, 2015, 83, 4438-4449.	2.2	21
34	Heat Modifiability of Outer Membrane Proteins from Gram-Negative Bacteria. Methods in Molecular Biology, 2015, 1329, 51-56.	0.9	35
35	Methods to Characterize Folding and Function of BamA Cross-Link Mutants. Methods in Molecular Biology, 2015, 1329, 137-147.	0.9	3
36	Summary and Future Directions. Methods in Molecular Biology, 2015, 1329, 279-280.	0.9	0

#	Article	IF	Citations
37	Evidence of Distinct Channel Conformations for the Mitochondrial Outer Membrane Translocase Tom40. FASEB Journal, 2015, 29, 777.7.	0.5	0
38	FhaC takes a bow to FHA in the two-partner do-si-do. Molecular Microbiology, 2014, 92, 1155-1158.	2.5	0
39	Structural insights into the transport of small molecules across membranes. Current Opinion in Structural Biology, 2014, 27, 8-15.	5.7	20
40	Lateral Opening and Exit Pore Formation Are Required for BamA Function. Structure, 2014, 22, 1055-1062.	3.3	166
41	An Engineered Palette of Metal Ion Quenchable Fluorescent Proteins. PLoS ONE, 2014, 9, e95808.	2.5	23
42	Structural insight into the biogenesis of Î²-barrel membrane proteins. Nature, 2013, 501, 385-390.	27.8	368
43	Structural insight into the lactoferrin receptors from pathogenic Neisseria. Journal of Structural Biology, 2013, 184, 83-92.	2.8	35
44	Molecular Insight into Substrate Recognition and Catalysis of Baeyerâ€“Villiger Monooxygenase MtmOIV, the Key Frame-Modifying Enzyme in the Biosynthesis of Anticancer Agent Mithramycin. ACS Chemical Biology, 2013, 8, 2466-2477.	3.4	36
45	Specific targeting and killing of Gram-negative pathogens with an engineered phage lytic enzyme. Virulence, 2013, 4, 90-91.	4.4	4
46	Structural basis for iron piracy by pathogenic Neisseria. Nature, 2012, 483, 53-58.	27.8	239
47	The transferrinâ€“iron import system from pathogenic <scp>N</scp>eisseria species. Molecular Microbiology, 2012, 86, 246-257.	2.5	63
48	Molecular Basis for the Activation of a Catalytic Asparagine Residue in a Self-Cleaving Bacterial Autotransporter. Journal of Molecular Biology, 2012, 415, 128-142.	4.2	40
49	Structural engineering of a phage lysin that targets Gram-negative pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9857-9862.	7.1	144
50	Crystal Structures of the Outer Membrane Domain of Intimin and Invasin from Enterohemorrhagic E. coli and Enteropathogenic Y. pseudotuberculosis. Structure, 2012, 20, 1233-1243.	3.3	82
51	The Crystal Structure of BamB Suggests Interactions with BamA and Its Role within the BAM Complex. Journal of Molecular Biology, 2011, 407, 248-260.	4.2	82
52	The structural biology of Î²-barrel membrane proteins: a summary of recent reports. Current Opinion in Structural Biology, 2011, 21, 523-531.	5.7	216
53	Solute and Ion Transport: Outer Membrane Pores and Receptors. EcoSal Plus, 2010, 4, .	5.4	5
54	A Modular BAM Complex in the Outer Membrane of the Î±-Proteobacterium Caulobacter crescentus. PLoS ONE, 2010, 5, e8619.	2.5	62

#	Article	IF	Citations
55	TonB-Dependent Transporters: Regulation, Structure, and Function. Annual Review of Microbiology, 2010, 64, 43-60.	7.3	811
56	Reconstitution of bacterial outer membrane TonB-dependent transporters in planar lipid bilayer membranes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21990-21995.	7.1	30
57	Protein secretion and outer membrane assembly inAlphaproteobacteria. FEMS Microbiology Reviews, 2008, 32, 995-1009.	8.6	76
58	Signaling mechanisms for activation of extracytoplasmic function (ECF) sigma factors. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1930-1945.	2.6	98
59	Crystallization of Integral Membrane Proteins. Current Protocols in Protein Science, 2007, 47, Unit 17.9.	2.8	4
60	Colicin Biology. Microbiology and Molecular Biology Reviews, 2007, 71, 158-229.	6.6	902
61	Structure of colicin I receptor bound to the R-domain of colicin Ia: implications for protein import. EMBO Journal, 2007, 26, 2594-2604.	7.8	91
62	Autotransporter structure reveals intra-barrel cleavage followed by conformational changes. Nature Structural and Molecular Biology, 2007, 14, 1214-1220.	8.2	151
63	A structural comparison of human serum transferrin and human lactoferrin. BioMetals, 2007, 20, 249-262.	4.1	101
64	The Crystal Structure of Iron-free Human Serum Transferrin Provides Insight into Inter-lobe Communication and Receptor Binding. Journal of Biological Chemistry, 2006, 281, 24934-24944.	3.4	226
65	Bacterial metal detectors. Molecular Microbiology, 2005, 58, 1205-1209.	2.5	7
66	Structure of the OmpA-like domain of RmpM from Neisseria meningitidis. Molecular Microbiology, 2004, 51, 1027-1037.	2.5	118
67	Recognition of iron-free siderophores by TonB-dependent iron transporters. Molecular Microbiology, 2004, 54, 14-22.	2.5	88
68	Structural Evidence for Iron-free Citrate and Ferric Citrate Binding to the TonB-dependent Outer Membrane Transporter FecA. Journal of Molecular Biology, 2003, 332, 353-368.	4.2	181
69	Crystal structure of the outer membrane active transporter FepA from Escherichia coli. Nature Structural Biology, 1999, 6, 56-63.	9.7	531
70	Overexpression and refolding of an 80-kDa iron transporter from the outer membrane of Escherichia coli. Biochemical Society Transactions, 1999, 27, 903-908.	3.4	19