

Timothy J Knowles

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,243
citations

331670

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289244

40
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43
all docs

43
docs citations

43
times ranked

2585
citing authors

#	ARTICLE	IF	CITATIONS
1	The lipoprotein DolP affects cell separation in Escherichia coli, but not as an upstream regulator of NlpD. Microbiology (United Kingdom), 2022, 168, .	1.8	2
2	Peptidoglycan maturation controls outer membrane protein assembly. Nature, 2022, 606, 953-959.	27.8	34
3	Methods for the solubilisation of membrane proteins: the micelle-aneous world of membrane protein solubilisation. Biochemical Society Transactions, 2021, 49, 1763-1777.	3.4	15
4	Surface-tethered planar membranes containing the β -barrel assembly machinery: a platform for investigating bacterial outer membrane protein folding. Biophysical Journal, 2021, 120, 5295-5308.	0.5	4
5	Binding of the periplakin linker requires vimentin acidic residues D176 and E187. Communications Biology, 2020, 3, 83.	4.4	7
6	Adsorption of a styrene maleic acid (SMA) copolymer-stabilized phospholipid nanodisc on a solid-supported planar lipid bilayer. Journal of Colloid and Interface Science, 2020, 574, 272-284.	9.4	9
7	Iron is a ligand of SecA-like metal-binding domains in vivo. Journal of Biological Chemistry, 2020, 295, 7516-7528.	3.4	3
8	Structure of dual BON-domain protein DolP identifies phospholipid binding as a new mechanism for protein localisation. ELife, 2020, 9, .	6.0	25
9	Structural Investigations of Protein-Lipid Complexes Using Neutron Scattering. Methods in Molecular Biology, 2019, 2003, 201-251.	0.9	17
10	Evidence for phospholipid export from the bacterial inner membrane by the Mla ABC transport system. Nature Microbiology, 2019, 4, 1692-1705.	13.3	88
11	SMA-PAGE: A new method to examine complexes of membrane proteins using SMALP nano-encapsulation and native gel electrophoresis. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1437-1445.	2.6	22
12	The C-terminal tail of the bacterial translocation ATPase SecA modulates its activity. ELife, 2019, 8, .	6.0	9
13	YraP Contributes to Cell Envelope Integrity and Virulence of Salmonella enterica Serovar Typhimurium. Infection and Immunity, 2018, 86, .	2.2	19
14	An acid-compatible co-polymer for the solubilization of membranes and proteins into lipid bilayer-containing nanoparticles. Nanoscale, 2018, 10, 10609-10619.	5.6	91
15	Minichaperone (GroEL191-345) mediated folding of MalZ proceeds by binding and release of native and functional intermediates. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 941-951.	2.3	3
16	MCE domain proteins: conserved inner membrane lipid-binding proteins required for outer membrane homeostasis. Scientific Reports, 2017, 7, 8608.	3.3	52
17	BTN3A1 Discriminates β T Cell Phosphoantigens from Nonantigenic Small Molecules via a Conformational Sensor in Its B30.2 Domain. ACS Chemical Biology, 2017, 12, 2631-2643.	3.4	50
18	Secondary structure and ^1H , ^{13}C and ^{15}N resonance assignments of Skint-1: a selecting ligand for a murine β T cell subset implicated in tumour suppression. Biomolecular NMR Assignments, 2016, 10, 357-360.	0.8	0

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19	Mechanism of intermediate filament recognition by plakin repeat domains revealed by envoplakin targeting of vimentin. <i>Nature Communications</i> , 2016, 7, 10827.	12.8	28
20	Characterization of a Putative Receptor Binding Surface on Skint-1, a Critical Determinant of Dendritic Epidermal T Cell Selection. <i>Journal of Biological Chemistry</i> , 2016, 291, 9310-9321.	3.4	20
21	A novel pathway for outer membrane protein biogenesis in Gram-negative bacteria. <i>Molecular Microbiology</i> , 2015, 97, 607-611.	2.5	16
22	Cross-species chimeras reveal BamA POTRA and β -barrel domains must be finely-tuned for efficient OMP insertion. <i>Molecular Microbiology</i> , 2015, 97, 646-659.	2.5	17
23	G-protein coupled receptor solubilization and purification for biophysical analysis and functional studies, in the total absence of detergent. <i>Bioscience Reports</i> , 2015, 35, .	2.4	150
24	Expression, Purification, and Screening of BamE, a Component of the BAM Complex, for Structural Characterization. <i>Methods in Molecular Biology</i> , 2015, 1329, 245-258.	0.9	1
25	Detergent-free purification of ABC (ATP-binding-cassette) transporters. <i>Biochemical Journal</i> , 2014, 461, 269-278.	3.7	166
26	Mutational and Topological Analysis of the Escherichia coli BamA Protein. <i>PLoS ONE</i> , 2013, 8, e84512.	2.5	29
27	A generalised module for the selective extracellular accumulation of recombinant proteins. <i>Microbial Cell Factories</i> , 2012, 11, 69.	4.0	34
28	Nutrition and health claims: An enforcement perspective. <i>Trends in Food Science and Technology</i> , 2012, 28, 15-22.	15.1	9
29	Evolutionary History of Copy-Number-Variable Locus for the Low-Affinity Fc γ 3 Receptor: Mutation Rate, Autoimmune Disease, and the Legacy of Helminth Infection. <i>American Journal of Human Genetics</i> , 2012, 90, 973-985.	6.2	38
30	The Nonlinear Structure of the Desmoplakin Plakin Domain and the Effects of Cardiomyopathy-Linked Mutations. <i>Journal of Molecular Biology</i> , 2011, 411, 1049-1061.	4.2	26
31	Structure and function of BamE within the outer membrane and the β -barrel assembly machine. <i>EMBO Reports</i> , 2011, 12, 123-128.	4.5	88
32	Production of membrane proteins without cells or detergents. <i>New Biotechnology</i> , 2011, 28, 250-254.	4.4	42
33	The Essential β -Barrel Assembly Machinery Complex Components BamD and BamA Are Required for Autotransporter Biogenesis. <i>Journal of Bacteriology</i> , 2011, 193, 4250-4253.	2.2	70
34	Surfactant-free purification of membrane proteins with intact native membrane environment. <i>Biochemical Society Transactions</i> , 2011, 39, 813-818.	3.4	96
35	Secondary structure and ^1H , ^{13}C and ^{15}N resonance assignments of BamE, a component of the outer membrane protein assembly machinery in Escherichia coli. <i>Biomolecular NMR Assignments</i> , 2010, 4, 179-181.	0.8	13
36	Bile Changes after Liver Surgery: Experimental and Clinical Lessons for Future Applications. <i>Digestive Surgery</i> , 2010, 27, 450-460.	1.2	4

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37	Secondary structure and 1H, 13C and 15N backbone resonance assignments of BamC, a component of the outer membrane protein assembly machinery in Escherichia coli. <i>Biomolecular NMR Assignments</i> , 2009, 3, 203-206.	0.8	26
38	Membrane protein architects: the role of the BAM complex in outer membrane protein assembly. <i>Nature Reviews Microbiology</i> , 2009, 7, 206-214.	28.6	320
39	Membrane Proteins Solubilized Intact in Lipid Containing Nanoparticles Bounded by Styrene Maleic Acid Copolymer. <i>Journal of the American Chemical Society</i> , 2009, 131, 7484-7485.	13.7	446
40	Fold and function of polypeptide transport-associated domains responsible for delivering unfolded proteins to membranes. <i>Molecular Microbiology</i> , 2008, 68, 1216-1227.	2.5	142
41	Secondary structure and 1H, 13C and 15N resonance assignments of the Escherichia coli YaeT POTRA domain. <i>Biomolecular NMR Assignments</i> , 2007, 1, 113-115.	0.8	4