

# 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

21  
h-index

289244

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2585  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Detergent-free purification of ABC (ATP-binding-cassette) transporters. <i>Biochemical Journal</i> , 2014, 461, 269-278.	3.7	166
4	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
5	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
6	Surfactant-free purification of membrane proteins with intact native membrane environment. <i>Biochemical Society Transactions</i> , 2011, 39, 813-818.	3.4	96
7	An acid-compatible co-polymer for the solubilization of membranes and proteins into lipid bilayer-containing nanoparticles. <i>Nanoscale</i> , 2018, 10, 10609-10619.	5.6	91
8	Structure and function of BamE within the outer membrane and the $\beta$ -barrel assembly machine. <i>EMBO Reports</i> , 2011, 12, 123-128.	4.5	88
9	Evidence for phospholipid export from the bacterial inner membrane by the Mla ABC transport system. <i>Nature Microbiology</i> , 2019, 4, 1692-1705.	13.3	88
10	The Essential $\beta$ -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
11	MCE domain proteins: conserved inner membrane lipid-binding proteins required for outer membrane homeostasis. <i>Scientific Reports</i> , 2017, 7, 8608.	3.3	52
12	BTN3A1 Discriminates $\beta$ T Cell Phosphoantigens from Nonantigenic Small Molecules via a Conformational Sensor in Its B30.2 Domain. <i>ACS Chemical Biology</i> , 2017, 12, 2631-2643.	3.4	50
13	Production of membrane proteins without cells or detergents. <i>New Biotechnology</i> , 2011, 28, 250-254.	4.4	42
14	Evolutionary History of Copy-Number-Variable Locus for the Low-Affinity Fc $\gamma$ 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
15	A generalised module for the selective extracellular accumulation of recombinant proteins. <i>Microbial Cell Factories</i> , 2012, 11, 69.	4.0	34
16	Peptidoglycan maturation controls outer membrane protein assembly. <i>Nature</i> , 2022, 606, 953-959.	27.8	34
17	Mutational and Topological Analysis of the Escherichia coli BamA Protein. <i>PLoS ONE</i> , 2013, 8, e84512.	2.5	29
18	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

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19	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
20	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
21	Structure of dual BON-domain protein DolP identifies phospholipid binding as a new mechanism for protein localisation. <i>ELife</i> , 2020, 9, .	6.0	25
22	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.	2.6	22
23	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
24	YraP Contributes to Cell Envelope Integrity and Virulence of Salmonella enterica Serovar Typhimurium. <i>Infection and Immunity</i> , 2018, 86, .	2.2	19
25	Cross-species chimeras reveal BamA POTRA and $\beta$ -barrel domains must be finely-tuned for efficient OMP insertion. <i>Molecular Microbiology</i> , 2015, 97, 646-659.	2.5	17
26	Structural Investigations of Protein-Lipid Complexes Using Neutron Scattering. <i>Methods in Molecular Biology</i> , 2019, 2003, 201-251.	0.9	17
27	A novel pathway for outer membrane protein biogenesis in Gram-negative bacteria. <i>Molecular Microbiology</i> , 2015, 97, 607-611.	2.5	16
28	Methods for the solubilisation of membrane proteins: the micelle-aneous world of membrane protein solubilisation. <i>Biochemical Society Transactions</i> , 2021, 49, 1763-1777.	3.4	15
29	Secondary structure and 1H, 13C and 15N 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
30	Nutrition and health claims: An enforcement perspective. <i>Trends in Food Science and Technology</i> , 2012, 28, 15-22.	15.1	9
31	Adsorption of a styrene maleic acid (SMA) copolymer-stabilized phospholipid nanodisc on a solid-supported planar lipid bilayer. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 272-284.	9.4	9
32	The C-terminal tail of the bacterial translocation ATPase SecA modulates its activity. <i>ELife</i> , 2019, 8, .	6.0	9
33	Binding of the periplakin linker requires vimentin acidic residues D176 and E187. <i>Communications Biology</i> , 2020, 3, 83.	4.4	7
34	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
35	Bile Changes after Liver Surgery: Experimental and Clinical Lessons for Future Applications. <i>Digestive Surgery</i> , 2010, 27, 450-460.	1.2	4
36	Surface-tethered planar membranes containing the $\beta$ -barrel assembly machinery: a platform for investigating bacterial outer membrane protein folding. <i>Biophysical Journal</i> , 2021, 120, 5295-5308.	0.5	4

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37	Minichaperone (GroEL191-345) mediated folding of MalZ proceeds by binding and release of native and functional intermediates. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 941-951.	2.3	3
38	Iron is a ligand of SecA-like metal-binding domains in vivo. <i>Journal of Biological Chemistry</i> , 2020, 295, 7516-7528.	3.4	3
39	The lipoprotein DolP affects cell separation in <i>Escherichia coli</i> , but not as an upstream regulator of NlpD. <i>Microbiology (United Kingdom)</i> , 2022, 168, .	1.8	2
40	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
41	Secondary structure and <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonance assignments of Skint-1: a selecting ligand for a murine <sup>1</sup> β1 T cell subset implicated in tumour suppression. <i>Biomolecular NMR Assignments</i> , 2016, 10, 357-360.	0.8	0