Peter J F Henderson

List of Publications by Year
in descending order

109 papers	5,481 citations	101543 36 h-index	82547 72 g-index
113 all docs	113 docs citations	113 times ranked	4395 citing authors

#	Article	IF	Citations
1	A linear equation that describes the steady-state kinetics of enzymes and subcellular particles interacting with tightly bound inhibitors. Biochemical Journal, 1972, 127, 321-333.	3.1	503
2	Mammalian and bacterial sugar transport proteins are homologous. Nature, 1987, 325, 641-643.	27.8	417
3	Structure and Molecular Mechanism of a Nucleobaseâ€"Cationâ€"Symport-1 Family Transporter. Science, 2008, 322, 709-713.	12.6	347
4	Membrane transport proteins: implications of sequence comparisons. Current Opinion in Cell Biology, 1992, 4, 684-695.	5.4	333
5	Overcoming barriers to membrane protein structure determination. Nature Biotechnology, 2011, 29, 335-340.	17.5	325
6	Molecular Basis of Alternating Access Membrane Transport by the Sodium-Hydantoin Transporter Mhp1. Science, 2010, 328, 470-473.	12.6	283
7	Cation and sugar selectivity determinants in a novel family of transport proteins. Molecular Microbiology, 1996, 19, 911-922.	2.5	174
8	The 12-transmembrane helix transporters. Current Opinion in Cell Biology, 1993, 5, 708-721.	5.4	170
9	Proton-linked sugar transport systems in bacteria. Journal of Bioenergetics and Biomembranes, 1990, 22, 525-569.	2.3	159
10	Transcriptomic and biochemical analyses identify a family of chlorhexidine efflux proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20254-20259.	7.1	138
11	Homologs of the Acinetobacter baumannii AceI Transporter Represent a New Family of Bacterial Multidrug Efflux Systems. MBio, 2015, 6, .	4.1	138
12	Unidirectional Reconstitution into Detergent-destabilized Liposomes of the Purified Lactose Transport System of. Journal of Biological Chemistry, 1996, 271, 15358-15366.	3.4	109
13	Metabolism of glutamine and glutathione via Î³-glutamyltranspeptidase and glutamate transport in Helicobacter pylori: possible significance in the pathophysiology of the organism. Molecular Microbiology, 2007, 64, 396-406.	2.5	102
14	Subcellular Distribution and Membrane Topology of the Mammalian Concentrative Na+-Nucleoside Cotransporter rCNT1. Journal of Biological Chemistry, 2001, 276, 27981-27988.	3.4	90
15	Microbial Drug Efflux Proteins of the Major Facilitator Superfamily. Current Drug Targets, 2006, 7, 793-811.	2.1	87
16	Molecular mechanism of ligand recognition by membrane transport protein, Mhp1. EMBO Journal, 2014, 33, 1831-1844.	7.8	79
17	Physiological Functions of Bacterial â€œMultidrugâ€• Efflux Pumps. Chemical Reviews, 2021, 121, 5417-5478.	47.7	78
18	Pacing across the membrane: the novel PACE family of efflux pumps is widespread in Gram-negative pathogens. Research in Microbiology, 2018, 169, 450-454.	2.1	77

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19	A thiol-reactive Ru(II) ion, not CO release, underlies the potent antimicrobial and cytotoxic properties of CO-releasing molecule-3. Redox Biology, 2018, 18, 114-123.	9.0	77
20	The multidrug resistance efflux complex, EmrAB from Escherichia coli forms a dimer in vitro. Biochemical and Biophysical Research Communications, 2009, 380, 338-342.	2.1	70
21	Steady-state enzyme kinetics with high-affinity substrates or inhibitors. A statistical treatment of doseâ€“response curves. Biochemical Journal, 1973, 135, 101-107.	3.7	68
22	A Kinetic Analysis of the Effects of Inhibitor-1 and Inhibitor-2 on the Activity of Protein Phosphatase-1. FEBS Journal, 1983, 132, 309-313.	0.2	68
23	The gusBC Genes of Escherichia coli Encode a Glucuronide Transport System. Journal of Bacteriology, 2005, 187, 2377-2385.	2.2	61
24	A high-throughput method for membrane protein solubility screening: The ultracentrifugation dispersity sedimentation assay. Protein Science, 2007, 16, 1422-1428.	7.6	59
25	[31] Assay, genetics, proteins, and reconstitution of proton-linked galactose, arabinose, and xylose transport systems of Escherichia coli. Methods in Enzymology, 1986, 125, 387-429.	1.0	57
26	Expression, Purification and Characterisation of Full-length Histidine Protein Kinase RegB from Rhodobacter sphaeroides. Journal of Molecular Biology, 2002, 320, 201-213.	4.2	57
27	Microbial expression systems for membrane proteins. Methods, 2018, 147, 3-39.	3.8	57
28	Amphipols Outperform Dodecylmaltoside Micelles in Stabilizing Membrane Protein Structure in the Gas Phase. Analytical Chemistry, 2015, 87, 1118-1126.	6.5	50
29	Sugarâ€"Cation Symport Systems in Bacteria. International Review of Cytology, 1992, 137, 149-208.	6.2	49
30	The Hydantoin Transport Protein from Microbacterium liquefaciens. Journal of Bacteriology, 2006, 188, 3329-3336.	2.2	49
31	Identification of a novel sugar-H+symport protein, FucP, for transport of L-fucose into Escherichia coli. Molecular Microbiology, 1994, 12, 799-809.	2.5	45
32	Screening of candidate substrates and coupling ions of transporters by thermostability shift assays. ELife, 2018, 7, .	6.0	45
33	Antibiotic resistance: multidrug efflux proteins, a common transport mechanism?. Natural Product Reports, 2005, 22, 439.	10.3	44
34	The alternating access mechanism of transport asÂobserved in the sodium-hydantoin transporter Mhp1. Journal of Synchrotron Radiation, 2011, 18, 20-23.	2.4	42
35	Allantoin transport protein, PucI, from Bacillus subtilis: evolutionary relationships, amplified expression, activity and specificity. Microbiology (United Kingdom), 2016, 162, 823-836.	1.8	40
36	Isolation of Escherichia coli inner membranes by metal affinity two-phase partitioning. Journal of Chromatography A, 2006, 1118, 244-252.	3.7	38

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37	The improved synthesis of Î²-D-glucuronides using TEMPO and t-butyl hypochlorite. Tetrahedron Letters, 1999, 40, 1201-1202.	1.4	36
38	An ace up their sleeve: a transcriptomic approach exposes the AceI eï¬„ux protein of Acinetobacter baumannii and reveals the drug eï¬„ux potential hidden in many microbial pathogens. Frontiers in Microbiology, 2015, 6, 333.	3.5	35
39	Asparagine 394 in Putative Helix 11 of the Galactose-H+ Symport Protein (GalP) from Escherichia coli Is Associated with the Internal Binding Site for Cytochalasin B and Sugar. Journal of Biological Chemistry, 1997, 272, 15189-15199.	3.4	34
40	Molecular dissection of membrane-transport proteins: mass spectrometry and sequence determination of the galactoseâ€"H+ symport protein, GalP, of Escherichia coli and quantitative assay of the incorporation of [ring-2-13C]histidine and 15NH3. Biochemical Journal, 2002, 363, 243-252.	3.7	33
41	Collection and characterisation of bacterial membrane proteins. FEBS Letters, 2003, 555, 170-175.	2.8	33
42	â€˜Carbon-Monoxide-Releasing Molecule-2 (CORM-2)â€™ Is a Misnomer: Ruthenium Toxicity, Not CO Release, Accounts for Its Antimicrobial Effects. Antioxidants, 2021, 10, 915.	5.1	30
43	The sodiumâ€dependent<scp>d</scp>â€glucose transport protein of<i>Helicobacter pylori</i>. Molecular Microbiology, 2009, 71, 391-403.	2.5	28
44	Topological Dissection of the Membrane Transport Protein Mhp1 Derived from Cysteine Accessibility and Mass Spectrometry. Analytical Chemistry, 2017, 89, 8844-8852.	6.5	28
45	The isolation and purification of the elvapeptins. FEBS Letters, 1982, 145, 258-262.	2.8	27
46	Expression, purification and activities of the entire family of intact membrane sensor kinases from<i>Enterococcus faecalis</i>. Molecular Membrane Biology, 2008, 25, 449-473.	2.0	27
47	Studies of translocation catalysis. Bioscience Reports, 1991, 11, 477-538.	2.4	24
48	Homologous sugar-transport proteins in microbes and man. Biochemical Society Transactions, 1993, 21, 1002-1006.	3.4	24
49	The kinetics and thermodynamics of the binding of cytochalasin B to sugar transporters. FEBS Journal, 1994, 221, 513-522.	0.2	22
50	Weak Substrate Binding to Transport Proteins Studied by NMR. Biophysical Journal, 1998, 75, 2794-2800.	0.5	22
51	Purification and Preliminary Structural Analysis of the Efrapeptins, a Group of Antibiotics that Inhibit the Mitochondrial Adenosine Triphosphatase. Biochemical Society Transactions, 1979, 7, 224-226.	3.4	21
52	Reliable scale-up of membrane protein over-expression by bacterial auto-induction: From microwell plates to pilot scale fermentations. Molecular Membrane Biology, 2008, 25, 588-598.	2.0	21
53	An Efficient Strategy for Small-Scale Screening and Production of Archaeal Membrane Transport Proteins in Escherichia coli. PLoS ONE, 2013, 8, e76913.	2.5	21
54	Short-chain diamines are the physiological substrates of PACE family efflux pumps. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18015-18020.	7.1	21

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55	Reconstitution of the GalP galactose transport activity of Escherichia coli into liposomes made from soybean phospholipids. Biochimica Et Biophysica Acta - Biomembranes, 1983, 732, 204-209.	2.6	20
56	BC4707 Is a Major Facilitator Superfamily Multidrug Resistance Transport Protein from Bacillus cereus Implicated in Fluoroquinolone Tolerance. PLoS ONE, 2012, 7, e36720.	2.5	20
57	Selective NMR observation of inhibitor and sugar binding to the galactose-H + symport protein GalP, of Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1509, 55-64.	2.6	18
58	The Role of Tryptophans 371 and 395 in the Binding of Antibiotics and the Transport of Sugars by the D-Galactose-H+ Symport Protein (GalP) from Escherichia coli. Journal of Biological Chemistry, 1995, 270, 30359-30370.	3.4	16
59	Topological analyses of the l-fucose-H+ symport protein, FucP, from Escherichia coli. Molecular Microbiology, 2006, 15, 771-783.	2.5	16
60	Equilibrium and transient kinetic studies of the binding of cytochalasin B to the l-arabinose-H+ symport protein of Escherichia coli. Determination of the sugar binding specificity of the l-arabinose-H+ symporter. FEBS Journal, 1993, 215, 43-54.	0.2	15
61	Molecular dissection of membrane-transport proteins: mass spectrometry and sequence determination of the galactoseâ€'H+ symport protein, GalP, of Escherichia coli and quantitative assay of the incorporation of [ring-2-13C]histidine and 15NH3. Biochemical Journal, 2002, 363, 243.	3.7	15
62	A genomic strategy for cloning, expressing and purifying efflux proteins of the major facilitator superfamily. Journal of Antimicrobial Chemotherapy, 2007, 59, 1265-1270.	3.0	14
63	Purification of bacterial membrane sensor kinases and biophysical methods for determination of their ligand and inhibitor interactions. Biochemical Society Transactions, 2016, 44, 810-823.	3.4	14
64	Cloning, expression, purification and properties of a putative multidrug resistance efflux protein from Helicobacter pylori. International Journal of Antimicrobial Agents, 2003, 22, 242-249.	2.5	13
65	A systematic approach to the amplified expression, functional characterization and purification of inositol transporters fromBacillus subtilis. Molecular Membrane Biology, 2013, 30, 3-14.	2.0	13
66	Defining topological features of membrane proteins by nanoelectrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 276-284.	1.5	12
67	Sugars, antibiotics, microbes and men â€¦. Trends in Genetics, 1987, 3, 62-64.	6.7	11
68	The putative drug efflux systems of the Bacillus cereus group. PLoS ONE, 2017, 12, e0176188.	2.5	11
69	The inter-relationship between proton-coupled and binding-protein-dependent transport systems in bacteria. Biochemical Society Transactions, 1980, 8, 678-679.	3.4	10
70	Cysteine residues in the d-galactoseâ€"H+ symport protein of Escherichia coli: effects of mutagenesis on transport, reaction with N-ethylmaleimide and antibiotic binding. Biochemical Journal, 2001, 353, 709-717.	3.7	10
71	The MFS Efflux Proteins of Gramâ€Positive and Gramâ€Negative Bacteria. Advances in Enzymology and Related Areas of Molecular Biology, 2011, 77, 147-166.	1.3	10
72	Bacillus cereus eï¬„ux protein BC3310 â€" a multidrug transporter of the unknown major facilitator family, UMF-2. Frontiers in Microbiology, 2015, 6, 1063.	3.5	10

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73	Specific spin labelling of the sugar-H + symporter, GalP, in cell membranes of Escherichia coli : site mobility and overall rotational diffusion of the protein. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1510, 464-473.	2.6	9
74	Redox-responsive in vitro modulation of the signalling state of the isolated PrrB sensor kinase ofRhodobacter sphaeroidesNCIB 8253. FEBS Letters, 2006, 580, 3206-3210.	2.8	9
75	The <scp>d</scp>-xylose binding protein of <i>Escherichia coli</i>. Biochemical Society Transactions, 1989, 17, 553-554.	3.4	8
76	Effect of the D32N and N300F mutations on the activity of the bacterial sugar transport protein, GalP. Biochemical Society Transactions, 1998, 26, S306-S306.	3.4	8
77	The variability of kinetic parameters for sugar transport in different mutants of the galactose-H+ symport protein, GalP, of Escherichia coli. Biochemical Society Transactions, 1994, 22, 643-646.	3.4	7
78	Sugarâ€"proton transport systems of <i>Escherichia coli</i>. Biochemical Society Transactions, 1984, 12, 146-148.	3.4	6
79	Detection of proton-linked sugar transport proteins in Enterobacteriaceae. Biochemical Society Transactions, 1989, 17, 441-444.	3.4	6
80	Photoaffinity labelling of the GalP d-galactose transport protein of Escherichia coli with cytochalasin B. Biochemical Society Transactions, 1989, 17, 552-553.	3.4	6
81	Dissection of discrete kinetic events in the binding of antibiotics and substrates to the galactose-H+ symport protein, GalP, ofEscherichia coli. Antonie Van Leeuwenhoek, 1994, 65, 349-358.	1.7	6
82	Nucleoside transporters in human placenta. Biochemical Society Transactions, 1992, 20, 244S-244S.	3.4	5
83	Purification, reconstitution and circular dichroism of the galactose-H+ transport protein [GalP-(His)6] of Escherichia coli. Biochemical Society Transactions, 1997, 25, 471S-471S.	3.4	5
84	Production of membrane proteins for characterisation of their pheromone-sensing and antimicrobial resistance functions. European Biophysics Journal, 2018, 47, 723-737.	2.2	5
85	Increasing the PACE of characterising novel transporters by functional genomics. Current Opinion in Microbiology, 2021, 64, 1-8.	5.1	5
86	The Multiplicity of Components, Energization Mechanisms and Functions involved in Galactose Transport into <i>Escherichia coli</i>. Biochemical Society Transactions, 1977, 5, 25-28.	3.4	4
87	Cysteine residues in the d-galactoseâ€'H+ symport protein of Escherichia coli: effects of mutagenesis on transport, reaction with N-ethylmaleimide and antibiotic binding. Biochemical Journal, 2001, 353, 709.	3.7	4
88	Mhp1, the Na+-Hydantoin Membrane Transport Protein. , 2013, , 1514-1521.		4
89	13th IIS(UK group) symposium. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 299-334.	1.0	3
90	Equipping a Research Scale Fermentation Laboratory for Production of Membrane Proteins. , 0, , 37-67.		3

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91	Function and Structure of Membrane Transport Proteins. , 1998, , 3-29.		3
92	The pre-steady-state kinetics of conformational changes in sugar transporters. Biochemical Society Transactions, 1994, 22, 650-654.	3.4	2
93	Purification of the galactose/H+ symport protein of Escherichia coli. Biochemical Society Transactions, 1992, 20, 251S-251S.	3.4	1
94	Mutagenesis of the galactose-H+ symporter, GalP, of Escherichia coli. Biochemical Society Transactions, 1994, 22, 277S-277S.	3.4	1
95	The interaction of forskolin with the galactose-H+ transport protein (GalP) of Escherichia coli. Biochemical Society Transactions, 1994, 22, 278S-278S.	3.4	1
96	Expression of prokaryotic membrane transport proteins in Eschericia coli - successes and failures. Biochemical Society Transactions, 1999, 27, A140-A140.	3.4	0
97	Expression of isotopically labelled membrane transport proteins. Biochemical Society Transactions, 1999, 27, A150-A150.	3.4	0
98	Overexpresion, purification and structural analysis of the Escherichia colil-fucose-H+ membrane transport protein, FucP. Biochemical Society Transactions, 1999, 27, A150-A150.	3.4	0
99	Comparative analyses of different types of secondary active solute transport proteins. Biochemical Society Transactions, 2000, 28, A90-A90.	3.4	0
100	Overexpression of the bacterial transporter NupC - a model for mammalian active nucleoside transporters. Biochemical Society Transactions, 2000, 28, A93-A93.	3.4	0
101	Construction and overexpression of an affinity-tagged NupG, a bacterial nucleoside transporter from Escherichia coli. Biochemical Society Transactions, 2000, 28, A94-A94.	3.4	0
102	A Tribute to Stephen Allan Baldwin. Molecular Membrane Biology, 2015, 32, 33-34.	2.0	0
103	Membrane Transport Proteins: The Nucleobase-Cation-Symport-1 Family. , 2018, , 1-7.		0
104	Membrane Transport: Energetics and Overview. , 2018, , 1-13.		0
105	Structure, Substrate Recognition, and Mechanism of the Na+-Hydantoin Membrane Transport Protein, Mhp1. , 2019, , 1-12.		0
106	Membrane Transport Proteins: The Nucleobase-Cation-Symport-1 Family. , 2018, , 1-7.		0
107	Membrane Transport Proteins: The Nucleobase-Cation-Symport-1 Family. , 2018, , 1-7.		0
108	Membrane Transport Proteins: The Amino Acid-Polyamine-Organocation (APC) Superfamily. , 2019, , 1-8.		0

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109	Structure, Substrate Recognition, and Mechanism of the Na+-Hydantoin Membrane Transport Protein, Mhp1. , 2019, , 1-12.		0