## Christopher Miller

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers
7,402
citations
45
h-index
86
g-index

7,990
ext. papers
45
citations
15.9
avg, IF
L-index

#	Paper	IF	Citations
79	Charybdotoxin, a protein inhibitor of single Ca2+-activated K+ channels from mammalian skeletal muscle. <i>Nature</i> , <b>1985</b> , 313, 316-8	50.4	741
78	Secondary active transport mediated by a prokaryotic homologue of ClC Cl- channels. <i>Nature</i> , <b>2004</b> , 427, 803-7	50.4	523
77	Single streptomyces lividans K(+) channels: functional asymmetries and sidedness of proton activation. <i>Journal of General Physiology</i> , <b>1999</b> , 114, 551-60	3.4	288
76	KcsA: it <b>R</b> a potassium channel. <i>Journal of General Physiology</i> , <b>2001</b> , 118, 303-14	3.4	277
75	ClC chloride channels viewed through a transporter lens. <i>Nature</i> , <b>2006</b> , 440, 484-9	50.4	262
74	1990: annus mirabilis of potassium channels. <i>Science</i> , <b>1991</b> , 252, 1092-6	33.3	258
73	Homodimeric architecture of a ClC-type chloride ion channel. <i>Nature</i> , <b>1996</b> , 383, 337-40	50.4	235
72	Voltage-gated cation conductance channel from fragmented sarcoplasmic reticulum: steady-state electrical properties. <i>Journal of Membrane Biology</i> , <b>1978</b> , 40, 1-23	2.3	203
71	Ca++-induced fusion of fragmented sarcoplasmic reticulum with artificial planar bilayers. <i>Journal of Membrane Biology</i> , <b>1976</b> , 30, 283-300	2.3	187
70	Functional reconstitution of a prokaryotic K+ channel. <i>Journal of General Physiology</i> , <b>1998</b> , 111, 741-9	3.4	184
69	A biological role for prokaryotic ClC chloride channels. <i>Nature</i> , <b>2002</b> , 419, 715-8	50.4	178
68	Separate ion pathways in a Cl-/H+ exchanger. <i>Journal of General Physiology</i> , <b>2005</b> , 126, 563-70	3.4	165
67	A thermodynamic framework for understanding temperature sensing by transient receptor potential (TRP) channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 19492-7	11.5	164
66	NMR study of the tetrameric KcsA potassium channel in detergent micelles. <i>Protein Science</i> , <b>2006</b> , 15, 684-98	6.3	156
65	Mapping function to structure in a channel-blocking peptide: electrostatic mutants of charybdotoxin. <i>Biochemistry</i> , <b>1992</b> , 31, 7749-55	3.2	152
64	A decade of CLC chloride channels: structure, mechanism, and many unsettled questions. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>2000</b> , 29, 411-38		150
63	High-level expression, functional reconstitution, and quaternary structure of a prokaryotic ClC-type chloride channel. <i>Journal of General Physiology</i> , <b>1999</b> , 114, 713-22	3.4	142

## (2013-2000)

62	An overview of the potassium channel family. <i>Genome Biology</i> , <b>2000</b> , 1, REVIEWS0004	18.3	137
61	Fusion of phospholipid vesicles reconstituted with cytochrome c oxidase and mitochondrial hydrophobic protein. <i>Journal of Membrane Biology</i> , <b>1976</b> , 26, 319-33	2.3	129
60	Purification, reconstitution, and subunit composition of a voltage-gated chloride channel from Torpedo electroplax. <i>Biochemistry</i> , <b>1994</b> , 33, 13189-98	3.2	127
59	Site-specific mutations in a minimal voltage-dependent K+ channel alter ion selectivity and open-channel block. <i>Neuron</i> , <b>1991</b> , 7, 403-8	13.9	127
58	Ionic currents mediated by a prokaryotic homologue of CLC Cl- channels. <i>Journal of General Physiology</i> , <b>2004</b> , 123, 109-19	3.4	126
57	Uncoupling and turnover in a Cl-/H+ exchange transporter. <i>Journal of General Physiology</i> , <b>2007</b> , 129, 31	7 <i>-3</i> 2.19	111
56	Projection structure of a ClC-type chloride channel at 6.5 A resolution. <i>Nature</i> , <b>2001</b> , 409, 219-23	50.4	109
55	The lipid-protein interface of a Shaker K(+) channel. <i>Journal of General Physiology</i> , <b>2000</b> , 115, 51-8	3.4	109
54	Voltage-dependent caesium blockade of a cation channel from fragmented sarcoplasmic reticulum. <i>Nature</i> , <b>1979</b> , 280, 807-810	50.4	109
53	Dual functions of a small regulatory subunit in the mitochondrial calcium uniporter complex. <i>ELife</i> , <b>2016</b> , 5,	8.9	106
52	Ca++-induced fusion of proteoliposomes: dependence on transmembrane osmotic gradient. <i>Journal of Membrane Biology</i> , <b>1976</b> , 30, 271-82	2.3	103
51	Hanging gondola structure of the T1 domain in a voltage-gated K(+) channel. <i>Biochemistry</i> , <b>2000</b> , 39, 10347-52	3.2	96
50	Uncoupling of a CLC Cl-/H+ exchange transporter by polyatomic anions. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 682-90	6.5	93
49	Fluoride resistance and transport by riboswitch-controlled CLC antiporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15289-94	11.5	91
48	Ion permeation through a Clselective channel designed from a CLC Cl-/H+ exchanger. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11194-9	11.5	90
47	Design, function and structure of a monomeric ClC transporter. <i>Nature</i> , <b>2010</b> , 468, 844-7	50.4	89
46	Synergism between halide binding and proton transport in a CLC-type exchanger. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 691-9	6.5	88
45	A family of fluoride-specific ion channels with dual-topology architecture. <i>ELife</i> , <b>2013</b> , 2, e01084	8.9	79

44	Ionic hopping defended. <i>Journal of General Physiology</i> , <b>1999</b> , 113, 783-7	3.4	76
43	Crystal structures of a double-barrelled fluoride ion channel. <i>Nature</i> , <b>2015</b> , 525, 548-51	50.4	75
42	Decamethonium and hexamethonium block K+ channels of sarcoplasmic reticulum. <i>Nature</i> , <b>1980</b> , 288, 495-7	50.4	71
41	K+ channels lacking the RetramerizationRdomain: implications for pore structure. <i>Nature Structural Biology</i> , <b>1999</b> , 6, 1122-5		57
40	A provisional transport mechanism for a chloride channel-type Cl-/H+ exchanger. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 175-80	5.8	56
39	Intracellular proton-transfer mutants in a CLC Cl-/H+ exchanger. <i>Journal of General Physiology</i> , <b>2009</b> , 133, 131-8	3.4	54
38	A bacterial arginine-agmatine exchange transporter involved in extreme acid resistance. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 176-82	5.4	54
37	CLC Cl /H+ transporters constrained by covalent cross-linking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 20659-65	11.5	47
36	Bacterial fluoride resistance, Fluc channels, and the weak acid accumulation effect. <i>Journal of General Physiology</i> , <b>2014</b> , 144, 257-61	3.4	45
35	Proteolytic control of the mitochondrial calcium uniporter complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4388-4393	11.5	44
34	Potassium-selective block of barium permeation through single KcsA channels. <i>Journal of General Physiology</i> , <b>2011</b> , 138, 421-36	3.4	44
33	Ion channels: doing hard chemistry with hard ions. Current Opinion in Chemical Biology, 2000, 4, 148-51	9.7	37
32	Proof of dual-topology architecture of Fluc F- channels with monobody blockers. <i>Nature Communications</i> , <b>2014</b> , 5, 5120	17.4	35
31	Structure of a slow CLC Cl?/H+ antiporter from a cyanobacterium. <i>Biochemistry</i> , <b>2011</b> , 50, 788-94	3.2	32
30	A symmetry-driven search for electrostatic interaction partners in charybdotoxin and a voltage-gated K+ channel. <i>Biochemistry</i> , <b>1996</b> , 35, 6181-7	3.2	32
29	F-/Cl- selectivity in CLCF-type F-/H+ antiporters. <i>Journal of General Physiology</i> , <b>2014</b> , 144, 129-36	3.4	31
28	Fluoride-dependent interruption of the transport cycle of a CLC Cl-/H+ antiporter. <i>Nature Chemical Biology</i> , <b>2013</b> , 9, 721-5	11.7	30
27	Introduction. The blurred boundary between channels and transporters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 145-7	5.8	29

26	Intracellular proton access in a Cl(-)/H(+) antiporter. <i>PLoS Biology</i> , <b>2012</b> , 10, e1001441	9.7	26	
25	Reconstitution of ion channels. <i>Critical Reviews in Biochemistry</i> , <b>1985</b> , 19, 1-44		25	
24	CFTR: break a pump, make a channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 959-60	11.5	23	
23	Mechanistic signs of double-barreled structure in a fluoride ion channel. <i>ELife</i> , <b>2016</b> , 5,	8.9	23	
22	Ion channel structure and function. <i>Science</i> , <b>1992</b> , 258, 240-1	33.3	22	
21	A CLC-type F/H antiporter in ion-swapped conformations. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 601-606	17.6	16	
20	In the beginning: a personal reminiscence on the origin and legacy of ClC-0, the Frorpedo Cl(-) channelR <i>Journal of Physiology</i> , <b>2015</b> , 593, 4085-90	3.9	15	
19	Two-sided block of a dual-topology F- channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5697-701	11.5	15	
18	Biophysics. Lonely voltage sensor seeks protons for permeation. <i>Science</i> , <b>2006</b> , 312, 534-5	33.3	13	
17	Ion channel surprises: prokaryotes do it again!. <i>Neuron</i> , <b>2000</b> , 25, 7-9	13.9	12	
16	Functional Monomerization of a ClC-Type Fluoride Transporter. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 3607-3612	6.5	11	
15	Molecular determinants of permeation in a fluoride-specific ion channel. <i>ELife</i> , <b>2017</b> , 6,	8.9	11	
14	ClC channels: reading eukaryotic function through prokaryotic spectacles. <i>Journal of General Physiology</i> , <b>2003</b> , 122, 129-31	3.4	9	
13	Nonelectrolyte distribution in mouse diaphragm muscle. I. The pattern of nonelectrolyte distribution and reversal of the insulin effect. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1974</b> , 339, 71-84	3.8	8	
12	Molecular Interactions between a Fluoride Ion Channel and Synthetic Protein Blockers. <i>Biochemistry</i> , <b>2018</b> , 57, 1212-1218	3.2	5	
11	Building a temperature-sensitive ion channel. <i>Cell</i> , <b>2014</b> , 158, 977-979	56.2	4	
10	Everything you always wanted to know about SachsRseals. <i>Biophysical Journal</i> , <b>2009</b> , 97, 687	2.9	4	
9	Nonelectrolyte distribution in mouse diaphragm muscle. II. Cell volume D-xylose distribution, and the effect of insulin in hypertonic solutions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1974</b> , 339, 85-91	3.8	4	

8	Model-free free energy for voltage-gated channels. Journal of General Physiology, 2012, 139, 1-2	3.4	3
7	Author response: Dual functions of a small regulatory subunit in the mitochondrial calcium uniporter complex <b>2016</b> ,		2
6	Q-cubed mutant cues clues to CLC antiport mechanism. <i>Journal of General Physiology</i> , <b>2021</b> , 153,	3.4	2
5	Feel the force: Bio-electricity and the sensing of electric fields. <i>Biochemist</i> , <b>2011</b> , 33, 26-29	0.5	1
4	Influences: Childhood, boyhood, and youth. <i>Journal of General Physiology</i> , <b>2018</b> , 150, 649-651	3.4	О
3	Axe the army of cheap labour. <i>Nature</i> , <b>1996</b> , 384, 103-103	50.4	
2	Protein Penetrants: Handbook of Membrane Channels . Molecular and Cellular Physiology. Camillo Peracchia, Ed. Academic Press, San Diego, CA, 1994. xx, 591 pp., illus. \$150 or £92 <i>Science</i> , <b>1995</b> , 267, 911-912	33.3	
1	David Christopher Gadsby. 26 March 1947 March 2019. <i>Biographical Memoirs of Fellows of the Royal Society</i> , <b>2020</b> , 68, 175-193	0.1	