

Christopher Miller

List of Publications by Year in descending order

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87
papers

8,460
citations

50170

46
h-index

58464

82
g-index

138
all docs

138
docs citations

138
times ranked

4758
citing authors

#	ARTICLE	IF	CITATIONS
1	Q-cubed mutant cues clues to CLC antiport mechanism. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	7
2	David Christopher Gadsby. 26 March 1947–9 March 2019. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2020, 68, 175-193.	0.1	0
3	Molecular Interactions between a Fluoride Ion Channel and Synthetic Protein Blockers. <i>Biochemistry</i> , 2018, 57, 1212-1218.	1.2	9
4	Influences: Childhood, boyhood, and youth. <i>Journal of General Physiology</i> , 2018, 150, 649-651.	0.9	1
5	A CLC-type F-/H+ antiporter in ion-swapped conformations. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 601-606.	3.6	32
6	Proteolytic control of the mitochondrial calcium uniporter complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4388-4393.	3.3	68
7	Molecular determinants of permeation in a fluoride-specific ion channel. <i>ELife</i> , 2017, 6, .	2.8	20
8	Dual functions of a small regulatory subunit in the mitochondrial calcium uniporter complex. <i>ELife</i> , 2016, 5, .	2.8	134
9	Mechanistic signs of double-barreled structure in a fluoride ion channel. <i>ELife</i> , 2016, 5, .	2.8	33
10	Reductionism redux. <i>ELife</i> , 2016, 5, .	2.8	0
11	In the beginning: a personal reminiscence on the origin and legacy of ClC ⁰ , the <i>Torpedo</i> Cl ^{sup} channel™. <i>Journal of Physiology</i> , 2015, 593, 4085-4090.	1.3	19
12	Two-sided block of a dual-topology F ^{sup} channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5697-5701.	3.3	20
13	Crystal structures of a double-barrelled fluoride ion channel. <i>Nature</i> , 2015, 525, 548-551.	13.7	105
14	Functional Monomerization of a CLC-Type Fluoride Transporter. <i>Journal of Molecular Biology</i> , 2015, 427, 3607-3612.	2.0	14
15	Weird Ion Weird Ion Channels Mediating Resistance to Fluoride Toxicity. <i>FASEB Journal</i> , 2015, 29, .	0.2	0
16	F ^{sup} /Cl ^{sup} selectivity in CLCF-type F ^{sup} /H+ antiporters. <i>Journal of General Physiology</i> , 2014, 144, 129-136.	0.9	46
17	Building a Temperature-Sensitive Ion Channel. <i>Cell</i> , 2014, 158, 977-979.	13.5	6
18	Proof of dual-topology architecture of Fluc F ^{sup} channels with monobody blockers. <i>Nature Communications</i> , 2014, 5, 5120.	5.8	47

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19	Bacterial fluoride resistance, Fluc channels, and the weak acid accumulation effect. <i>Journal of General Physiology</i> , 2014, 144, 257-261.	0.9	71
20	Fluoride-dependent interruption of the transport cycle of a CLC Cl ⁻ /H ⁺ antiporter. <i>Nature Chemical Biology</i> , 2013, 9, 721-725.	3.9	39
21	A family of fluoride-specific ion channels with dual-topology architecture. <i>ELife</i> , 2013, 2, e01084.	2.8	110
22	Intracellular Proton Access in a Cl ⁻ /H ⁺ Antiporter. <i>PLoS Biology</i> , 2012, 10, e1001441.	2.6	39
23	Fluoride resistance and transport by riboswitch-controlled CLC antiporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15289-15294.	3.3	125
24	Model-free free energy for voltage-gated channels. <i>Journal of General Physiology</i> , 2012, 139, 1-2.	0.9	4
25	Structure of a Slow CLC Cl ⁻ /H ⁺ Antiporter from a Cyanobacterium. <i>Biochemistry</i> , 2011, 50, 788-794.	1.2	35
26	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> , 2011, 108, 19492-19497.	3.3	211
27	Potassium-selective block of barium permeation through single KcsA channels. <i>Journal of General Physiology</i> , 2011, 138, 421-436.	0.9	51
28	Feel the force: Bio-electricity and the sensing of electric fields. <i>Biochemist</i> , 2011, 33, 26-29.	0.2	1
29	Design, function and structure of a monomeric CLC transporter. <i>Nature</i> , 2010, 468, 844-847.	13.7	112
30	CFTR: Break a pump, make a channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 959-960.	3.3	26
31	Intracellular Proton-Transfer Mutants in a CLC Cl ⁻ /H ⁺ Exchanger. <i>Journal of General Physiology</i> , 2009, 133, 131-138.	0.9	68
32	A provisional transport mechanism for a chloride channel-type Cl ⁻ /H ⁺ exchanger. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 175-180.	1.8	65
33	Introduction. The blurred boundary between channels and transporters. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 145-147.	1.8	35
34	Everything You Always Wanted to Know about Sachs' Seals. <i>Biophysical Journal</i> , 2009, 97, 687.	0.2	4
35	Coughing up flu's proton channels. <i>Nature</i> , 2008, 451, 532-533.	13.7	20
36	Ion permeation through a Cl ⁻ -selective channel designed from a CLC Cl ⁻ /H ⁺ exchanger. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11194-11199.	3.3	97

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37	Uncoupling and Turnover in a Cl ⁻ /H ⁺ Exchange Transporter. <i>Journal of General Physiology</i> , 2007, 129, 317-329.	0.9	131
38	CLC Cl ⁻ /H ⁺ transporters constrained by covalent cross-linking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20659-20665.	3.3	54
39	A Bacterial Arginine-Agmatine Exchange Transporter Involved in Extreme Acid Resistance. <i>Journal of Biological Chemistry</i> , 2007, 282, 176-182.	1.6	60
40	A leak in the EAATs. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 356-357.	3.6	3
41	NMR study of the tetrameric KcsA potassium channel in detergent micelles. <i>Protein Science</i> , 2006, 15, 684-698.	3.1	165
42	Uncoupling of a CLC Cl ⁻ /H ⁺ Exchange Transporter by Polyatomic Anions. <i>Journal of Molecular Biology</i> , 2006, 362, 682-690.	2.0	105
43	Synergism Between Halide Binding and Proton Transport in a CLC-type Exchanger. <i>Journal of Molecular Biology</i> , 2006, 362, 691-699.	2.0	103
44	CLC chloride channels viewed through a transporter lens. <i>Nature</i> , 2006, 440, 484-489.	13.7	314
45	BIOPHYSICS: Lonely Voltage Sensor Seeks Protons for Permeation. <i>Science</i> , 2006, 312, 534-535.	6.0	15
46	Separate Ion Pathways in a Cl ⁻ /H ⁺ Exchanger. <i>Journal of General Physiology</i> , 2005, 126, 563-570.	0.9	203
47	Ionic Currents Mediated by a Prokaryotic Homologue of CLC Cl ⁻ Channels. <i>Journal of General Physiology</i> , 2004, 123, 109-119.	0.9	138
48	Secondary active transport mediated by a prokaryotic homologue of CLC Cl ⁻ channels. <i>Nature</i> , 2004, 427, 803-807.	13.7	602
49	Ion Channels Go to Stockholm—This Time as Proteins. <i>Neuron</i> , 2003, 40, 1049-1051.	3.8	2
50	CLC Channels. <i>Journal of General Physiology</i> , 2003, 122, 129-131.	0.9	11
51	A biological role for prokaryotic CLC chloride channels. <i>Nature</i> , 2002, 419, 715-718.	13.7	204
52	Projection structure of a CLC-type chloride channel at 6.5 Å resolution. <i>Nature</i> , 2001, 409, 219-223.	13.7	120
53	See potassium run. <i>Nature</i> , 2001, 414, 23-24.	13.7	73
54	Kcsa. <i>Journal of General Physiology</i> , 2001, 118, 303-314.	0.9	314

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55	Ion channels: doing hard chemistry with hard ions. <i>Current Opinion in Chemical Biology</i> , 2000, 4, 148-151.	2.8	42
56	The Lipid-Protein Interface of a Shaker K ⁺ Channel. <i>Journal of General Physiology</i> , 2000, 115, 51-58.	0.9	119
57	Ion Channel Surprises. <i>Neuron</i> , 2000, 25, 7-9.	3.8	12
58	An overview of the potassium channel family. <i>Genome Biology</i> , 2000, 1, reviews0004.1.	13.9	169
59	A Decade of CLC Chloride Channels: Structure, Mechanism, and Many Unsettled Questions. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2000, 29, 411-438.	18.3	167
60	Hanging Gondola Structure of the T1 Domain in a Voltage-Gated K ⁺ Channel. <i>Biochemistry</i> , 2000, 39, 10347-10352.	1.2	103
61	Ionic Hopping Defended. <i>Journal of General Physiology</i> , 1999, 113, 783-787.	0.9	78
62	Single <i>Streptomyces lividans</i> K ⁺ Channels. <i>Journal of General Physiology</i> , 1999, 114, 551-560.	0.9	293
63	High-Level Expression, Functional Reconstitution, and Quaternary Structure of a Prokaryotic Clc-Type Chloride Channel. <i>Journal of General Physiology</i> , 1999, 114, 713-722.	0.9	159
64	K ⁺ channels lacking the 'tetramerization' domain: implications for pore structure. , 1999, 6, 1122-1125.		61
65	Functional Reconstitution of a Prokaryotic K ⁺ Channel. <i>Journal of General Physiology</i> , 1998, 111, 741-749.	0.9	201
66	Cuddling up to channel activation. <i>Nature</i> , 1997, 389, 328-329.	13.7	11
67	A Symmetry-Driven Search for Electrostatic Interaction Partners in Charybdotoxin and a Voltage-Gated K ⁺ Channel. <i>Biochemistry</i> , 1996, 35, 6181-6187.	1.2	38
68	The inconstancy of the human heart. <i>Nature</i> , 1996, 379, 767-768.	13.7	15
69	Homodimeric architecture of a ClC-type chloride ion channel. <i>Nature</i> , 1996, 383, 337-340.	13.7	257
70	Axe the army of cheap labour. <i>Nature</i> , 1996, 384, 103-103.	13.7	0
71	Protein Penetrants: <i>Handbook of Membrane Channels</i> . Molecular and Cellular Physiology. Camillo Peracchia, Ed. Academic Press, San Diego, CA, 1994. xx, 591 pp., illus. \$150 or £92.. <i>Science</i> , 1995, 267, 911-912.	6.0	0
72	Purification, Reconstitution, and Subunit Composition of a Voltage-Gated Chloride Channel from Torpedo Electroplax. <i>Biochemistry</i> , 1994, 33, 13189-13198.	1.2	135

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73	Sickly channels in mild disease. <i>Nature</i> , 1993, 362, 106-106.	13.7	7
74	Ion channel structure and function. <i>Science</i> , 1992, 258, 240-241.	6.0	26
75	Mapping function to structure in a channel-blocking peptide: electrostatic mutants of charybdotoxin. <i>Biochemistry</i> , 1992, 31, 7749-7755.	1.2	164
76	Site-specific mutations in a minimal voltage-dependent K ⁺ channel alter ion selectivity and open-channel block. <i>Neuron</i> , 1991, 7, 403-408.	3.8	138
77	1990: annus mirabilis of potassium channels. <i>Science</i> , 1991, 252, 1092-1096.	6.0	274
78	Reconstitution of Ion Channel. <i>Critical Reviews in Biochemistry</i> , 1985, 19, 1-44.	7.5	27
79	Charybdotoxin, a protein inhibitor of single Ca ²⁺ -activated K ⁺ channels from mammalian skeletal muscle. <i>Nature</i> , 1985, 313, 316-318.	13.7	793
80	Decamethonium and hexamethonium block K ⁺ channels of sarcoplasmic reticulum. <i>Nature</i> , 1980, 288, 495-497.	13.7	77
81	Voltage-dependent caesium blockade of a cation channel from fragmented sarcoplasmic reticulum. <i>Nature</i> , 1979, 280, 807-810.	13.7	115
82	Voltage-gated cation conductance channel from fragmented sarcoplasmic reticulum: Steady-state electrical properties. <i>Journal of Membrane Biology</i> , 1978, 40, 1-23.	1.0	222
83	Fusion of phospholipid vesicles reconstituted with cytochrome c oxidase and mitochondrial hydrophobic protein. <i>Journal of Membrane Biology</i> , 1976, 26, 319-333.	1.0	133
84	Ca ⁺⁺ -induced fusion of proteoliposomes: Dependence on transmembrane osmotic gradient. <i>Journal of Membrane Biology</i> , 1976, 30, 271-282.	1.0	110
85	Ca ⁺⁺ -induced fusion of fragmented sarcoplasmic reticulum with artificial planar bilayers. <i>Journal of Membrane Biology</i> , 1976, 30, 283-300.	1.0	204
86	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> , 1974, 339, 71-84.	1.4	10
87	Nonelectrolyte distribution in mouse diaphragm muscle. II. cell volume, dxylose distribution, and the effect of insulin in hypertonic solutions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1974, 339, 85-91.	1.4	4