Tsung-Yu Chen

List of Publications by Year
in descending order

53 papers	1,954 citations	279798 23 h-index	243625 44 g-index
54 all docs	54 docs citations	54 times ranked	1324 citing authors

#	Article	IF	Citations
1	Direct modulation by Ca2+â€“calmodulin of cyclic nucleotide-activated channel of rat olfactory receptor neurons. Nature, 1994, 368, 545-548.	27.8	399
2	STRUCTURE AND FUNCTION OF CLC CHANNELS. Annual Review of Physiology, 2005, 67, 809-839.	13.1	123
3	CLC-0 and CFTR: Chloride Channels Evolved From Transporters. Physiological Reviews, 2008, 88, 351-387.	28.8	123
4	Large movement in the C terminus of CLC-0 chloride channel during slow gating. Nature Structural and Molecular Biology, 2006, 13, 1115-1119.	8.2	102
5	Different Fast-Gate Regulation by External Clâˆ' and H+ of the Muscle-Type Clc Chloride Channels. Journal of General Physiology, 2001, 118, 23-32.	1.9	97
6	Elimination of the Slow Gating of Clc-0 Chloride Channel by a Point Mutation. Journal of General Physiology, 1999, 114, 1-12.	1.9	93
7	Independent activation of distinct pores in dimeric TMEM16A channels. Journal of General Physiology, 2016, 148, 393-404.	1.9	69
8	Side-chain Charge Effects and Conductance Determinants in the Pore of ClC-0 Chloride Channels. Journal of General Physiology, 2003, 122, 133-145.	1.9	67
9	Extracellular Zinc Ion Inhibits ClC-0 Chloride Channels by Facilitating Slow Gating. Journal of General Physiology, 1998, 112, 715-726.	1.9	66
10	Probing the Pore of ClC-0 by Substituted Cysteine Accessibility Method Using Methane Thiosulfonate Reagents. Journal of General Physiology, 2003, 122, 147-159.	1.9	61
11	Activation and Inhibition of TMEM16A Calcium-Activated Chloride Channels. PLoS ONE, 2014, 9, e86734.	2.5	54
12	Role of physiological ClC-1 Clâˆ' ion channel regulation for the excitability and function of working skeletal muscle. Journal of General Physiology, 2016, 147, 291-308.	1.9	53
13	Cytoplasmic ATP Inhibition of CLC-1 Is Enhanced by Low pH. Journal of General Physiology, 2007, 130, 217-221.	1.9	52
14	The Cullin 4A/B-DDB1-Cereblon E3 Ubiquitin Ligase Complex Mediates the Degradation of CLC-1 Chloride Channels. Scientific Reports, 2015, 5, 10667.	3.3	50
15	ATP Inhibition of CLC-1 Is Controlled by Oxidation and Reduction. Journal of General Physiology, 2008, 132, 421-428.	1.9	48
16	Cysteine Modification of a Putative Pore Residue in Clc-0. Journal of General Physiology, 2000, 116, 535-546.	1.9	41
17	Electrostatic Control and Chloride Regulation of the Fast Gating of ClC-0 Chloride Channels. Journal of General Physiology, 2003, 122, 641-651.	1.9	38
18	Calcium-calmodulin does not alter the anion permeability of the mouse TMEM16A calcium-activated chloride channel. Journal of General Physiology, 2014, 144, 115-124.	1.9	35

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19	Physiology and Pathophysiology of CLC-1: Mechanisms of a Chloride Channel Disease, Myotonia. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-10.	3.0	31
20	Odorant Inhibition of the Olfactory Cyclic Nucleotide-gated Channel with a Native Molecular Assembly. Journal of General Physiology, 2006, 128, 365-371.	1.9	29
21	Coupling Gating with Ion Permeation in ClC Channels. Science Signaling, 2003, 2003, pe23-pe23.	3.6	28
22	Myotonia Congenita Mutation Enhances the Degradation of Human CLC-1 Chloride Channels. PLoS ONE, 2013, 8, e55930.	2.5	28
23	Binding of ATP to the CBS domains in the C-terminal region of CLC-1. Journal of General Physiology, 2011, 137, 357-368.	1.9	25
24	Roles of K149, G352, and H401 in the Channel Functions of ClC-0: Testing the Predictions from Theoretical Calculations. Journal of General Physiology, 2006, 127, 435-447.	1.9	23
25	Odorant Inhibition in Mosquito Olfaction. IScience, 2019, 19, 25-38.	4.1	20
26	Protein kinase Câ€dependent regulation of ClCâ€1 channels in active human muscle and its effect on fast and slow gating. Journal of Physiology, 2016, 594, 3391-3406.	2.9	18
27	Contribution of the cyclic nucleotide gated channel subunit, CNG-3, to olfactory plasticity in Caenorhabditis elegans. Scientific Reports, 2017, 7, 169.	3.3	18
28	Regulation of CLC-1 chloride channel biosynthesis by FKBP8 and Hsp90Î². Scientific Reports, 2016, 6, 32444.	3.3	16
29	Defective Gating and Proteostasis of Human ClC-1 Chloride Channel: Molecular Pathophysiology of Myotonia Congenita. Frontiers in Neurology, 2020, 11, 76.	2.4	16
30	Oxidation and Reduction Control of the Inactivation Gating of Torpedo ClC-0 Chloride Channels. Biophysical Journal, 2005, 88, 3936-3945.	0.5	15
31	Blocking Pore-open Mutants of CLC-0 by Amphiphilic Blockers. Journal of General Physiology, 2009, 133, 43-58.	1.9	14
32	Comparison of ion transport determinants between a TMEM16 chloride channel and phospholipid scramblase. Journal of General Physiology, 2019, 151, 518-531.	1.9	14
33	Amphiphilic Blockers Punch through a Mutant CLC-0 Pore. Journal of General Physiology, 2009, 133, 59-68.	1.9	12
34	CUL4-DDB1-CRBN E3 Ubiquitin Ligase Regulates Proteostasis of ClC-2 Chloride Channels: Implication for Aldosteronism and Leukodystrophy. Cells, 2020, 9, 1332.	4.1	11
35	Dominantly Inherited Myotonia Congenita Resulting from a Mutation That Increases Open Probability of the Muscle Chloride Channel CLC-1. NeuroMolecular Medicine, 2012, 14, 328-337.	3.4	9
36	Modulation of the slow/common gating of CLC channels by intracellular cadmium. Journal of General Physiology, 2015, 146, 495-508.	1.9	9

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37	Purified human brain calmodulin does not alter the bicarbonate permeability of the ANO1/TMEM16A channel. Journal of General Physiology, 2015, 145, 79-81.	1.9	8
38	FKBP8 Enhances Protein Stability of the CLC-1 Chloride Channel at the Plasma Membrane. International Journal of Molecular Sciences, 2018, 19, 3783.	4.1	8
39	Divalent Cation Modulation of Ion Permeation in TMEM16 Proteins. International Journal of Molecular Sciences, 2021, 22, 2209.	4.1	7
40	A Three-State Multi-Ion Kinetic Model for Conduction Properties of ClC-0 Chloride Channel. Biophysical Journal, 2010, 99, 464-471.	0.5	5
41	Influences of Mutations on the Electrostatic Binding Free Energies of Chloride Ions in <i>Escherichia coli</i> ClC. Journal of Physical Chemistry B, 2012, 116, 6431-6438.	2.6	5
42	Cobalt ion interaction with TMEM16A calcium-activated chloride channel: Inhibition and potentiation. PLoS ONE, 2020, 15, e0231812.	2.5	5
43	Accessibility of the CLC-0 Pore to Charged Methanethiosulfonate Reagents. Biophysical Journal, 2010, 98, 377-385.	0.5	4
44	Single myotonia mutation strikes multiple mechanisms of a chloride channel. Journal of Physiology, 2012, 590, 3407-3407.	2.9	2
45	Integrin-mediated membrane blebbing is dependent on the NHE1 and NCX1 activities.. Nature Precedings, 2011, , .	0.1	1
46	Proton-dependent inhibition, inverted voltage activation, and slow gating of CLC-0 Chloride Channel. PLoS ONE, 2020, 15, e0240704.	2.5	1
47	Structure and Function of Calcium-Activated Chloride Channels and Phospholipid Scramblases in the TMEM16 Family. Handbook of Experimental Pharmacology, 2022, , 153-180.	1.8	1
48	Regulation of ClC-2 Chloride Channel Proteostasis by Molecular Chaperones: Correction of Leukodystrophy-Associated Defect. International Journal of Molecular Sciences, 2021, 22, 5859.	4.1	0
49	Cobalt ion interaction with TMEM16A calcium-activated chloride channel: Inhibition and potentiation. , 2020, 15, e0231812.		0
50	Cobalt ion interaction with TMEM16A calcium-activated chloride channel: Inhibition and potentiation. , 2020, 15, e0231812.		0
51	Cobalt ion interaction with TMEM16A calcium-activated chloride channel: Inhibition and potentiation. , 2020, 15, e0231812.		0
52	Cobalt ion interaction with TMEM16A calcium-activated chloride channel: Inhibition and potentiation. , 2020, 15, e0231812.		0
53	Biophysical and Pharmacological Insights to CLC Chloride Channels. Handbook of Experimental Pharmacology, 2022, , 1-34.	1.8	0