LÃ¡szlÃ³ CsanÃ¡dy

List of Publications by Year
in descending order

53	2,939	236612	214527
papers	citations	25 h-index	47 g-index

77	77	77	2775
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The ABC protein turned chloride channel whose failure causes cystic fibrosis. Nature, 2006, 440, 477-483.	13.7	624
2	Molecular Structure of the Human CFTR Ion Channel. Cell, 2017, 169, 85-95.e8.	13.5	421
3	Structure, Gating, and Regulation of the CFTR Anion Channel. Physiological Reviews, 2019, 99, 707-738.	13.1	169
4	Severed Channels Probe Regulation of Gating of Cystic Fibrosis Transmembrane Conductance Regulator by Its Cytoplasmic Domains. Journal of General Physiology, 2000, 116, 477-500.	0.9	117
5	Structure of a TRPM2 channel in complex with Ca2+ explains unique gating regulation. ELife, 2018, 7, .	2.8	115
6	Strict coupling between CFTRâ€™s catalytic cycle and gating of its Cl ^{â¯} ion pore revealed by distributions of open channel burst durations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1241-1246.	3.3	109
7	Four Ca2+ Ions Activate TRPM2 Channels by Binding in Deep Crevices near the Pore but Intracellularly of the Gate. Journal of General Physiology, 2009, 133, 189-203.	0.9	90
8	Identification of Direct and Indirect Effectors of the Transient Receptor Potential Melastatin 2 (TRPM2) Cation Channel. Journal of Biological Chemistry, 2010, 285, 30091-30102.	1.6	88
9	A Novel Kinetic Assay of Mitochondrial ATP-ADP Exchange Rate Mediated by the ANT. Biophysical Journal, 2009, 96, 2490-2504.	0.2	87
10	Rapid Kinetic Analysis of Multichannel Records by a Simultaneous Fit to All Dwell-Time Histograms. Biophysical Journal, 2000, 78, 785-799.	0.2	74
11	Severed Molecules Functionally Define the Boundaries of the Cystic Fibrosis Transmembrane Conductance Regulator's Nh2-Terminal Nucleotide Binding Domain. Journal of General Physiology, 2000, 116, 163-180.	0.9	73
12	Preferential Phosphorylation of R-domain Serine 768 Dampens Activation of CFTR Channels by PKA. Journal of General Physiology, 2005, 125, 171-186.	0.9	66
13	Timing of CFTR Pore Opening and Structure of Its Transition State. Cell, 2015, 163, 724-733.	13.5	61
14	Pore collapse underlies irreversible inactivation of TRPM2 cation channel currents. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13440-13445.	3.3	60
15	Functional Roles of Nonconserved Structural Segments in CFTR's NH2-terminal Nucleotide Binding Domain. Journal of General Physiology, 2005, 125, 43-55.	0.9	55
16	Thermodynamics of CFTR Channel Gating: A Spreading Conformational Change Initiates an Irreversible Gating Cycle. Journal of General Physiology, 2006, 128, 523-533.	0.9	54
17	Ruling out pyridine dinucleotides as true TRPM2 channel activators reveals novel direct agonist ADP-ribose-2â€²-phosphate. Journal of General Physiology, 2015, 145, 419-430.	0.9	53
18	The proposed channel-enzyme transient receptor potential melastatin 2 does not possess ADP ribose hydrolase activity. ELife, 2016, 5, .	2.8	48

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19	A single active catalytic site is sufficient to promote transport in P-glycoprotein. Scientific Reports, 2016, 6, 24810.	1.6	42
20	Mutant cycles at CFTRâ€™s non-canonical ATP-binding site support little interface separation during gating. Journal of General Physiology, 2011, 137, 549-562.	0.9	40
21	Putative chanzyme activity of TRPM2 cation channel is unrelated to pore gating. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16949-16954.	3.3	38
22	Mitoxantrone is expelled by the ABCG2 multidrug transporter directly from the plasma membrane. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 154-163.	1.4	34
23	The N-terminal transmembrane domain (TMD0) and a cytosolic linker (L0) of sulphonylurea receptor define the unique intrinsic gating of KATPchannels. Journal of Physiology, 2006, 576, 379-389.	1.3	33
24	Ca2+- and Voltage-Dependent Gating of Ca2+- and ATP-Sensitive Cationic Channels in Brain Capillary Endothelium. Biophysical Journal, 2003, 85, 313-327.	0.2	27
25	Ion channels as targets to treat cystic fibrosis lung disease. Journal of Cystic Fibrosis, 2018, 17, S22-S27.	0.3	27
26	Asymmetry of movements in CFTR's two ATP sites during pore opening serves their distinct functions. ELife, 2017, 6, .	2.8	27
27	Obligate coupling of CFTR pore opening to tight nucleotide-binding domain dimerization. ELife, 2016, 5, .	2.8	26
28	Sulfonylurea Receptors Type 1 and 2A Randomly Assemble to Form Heteromeric KATP Channels of Mixed Subunit Composition. Journal of General Physiology, 2008, 131, 43-58.	0.9	25
29	Cystic fibrosis drug ivacaftor stimulates CFTR channels at picomolar concentrations. ELife, 2019, 8, .	2.8	24
30	Involvement of F1296 and N1303 of CFTR in induced-fit conformational change in response to ATP binding at NBD2. Journal of General Physiology, 2010, 136, 407-423.	0.9	23
31	Conformational changes in the catalytically inactive nucleotide-binding site of CFTR. Journal of General Physiology, 2013, 142, 61-73.	0.9	23
32	Simple binding of protein kinase A prior to phosphorylation allows CFTR anion channels to be opened by nucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21740-21746.	3.3	22
33	Enzyme activity and selectivity filter stability of ancient TRPM2 channels were simultaneously lost in early vertebrates. ELife, 2019, 8, .	2.8	19
34	Statistical Evaluation of Ion-Channel Gating Models Based on Distributions of Log-Likelihood Ratios. Biophysical Journal, 2006, 90, 3523-3545.	0.2	18
35	Catalyst-like modulation of transition states for CFTR channel opening and closing: New stimulation strategy exploits nonequilibrium gating. Journal of General Physiology, 2014, 143, 269-287.	0.9	18
36	Selective profiling of N- and C-terminal nucleotide-binding sites in a TRPM2 channel. Journal of General Physiology, 2020, 152, .	0.9	14

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37	Antagonistic Regulation of Native Ca2+- and ATP-sensitive Cation Channels in Brain Capillaries by Nucleotides and Decavanadate. Journal of General Physiology, 2004, 123, 743-757.	0.9	13
38	Application of rate-equilibrium free energy relationship analysis to nonequilibrium ion channel gating mechanisms. Journal of General Physiology, 2009, 134, 129-136.	0.9	12
39	Structureâ€“activity analysis of a CFTR channel potentiator: Distinct molecular parts underlie dual gating effects. Journal of General Physiology, 2014, 144, 321-336.	0.9	12
40	A new target for G protein signaling. ELife, 2017, 6, .	2.8	10
41	Molecular pathology of the R117H cystic fibrosis mutation is explained by loss of a hydrogen bond. ELife, 2021, 10, .	2.8	9
42	Cftr Channel Gating. Journal of General Physiology, 1999, 114, 49-54.	0.9	8
43	PERSPECTIVES: Permeating proton found guilty in compromising TRPM2 channel activity. Journal of Physiology, 2010, 588, 1661-1662.	1.3	8
44	Degenerate ABC composite site is stably glued together by trapped ATP. Journal of General Physiology, 2010, 135, 395-398.	0.9	7
45	CFTR, an Ion Channel Evolved from ABC Transporter. , 2013, , 254-265.		4
46	Electrophysiological, Biochemical, and Bioinformatic Methods for Studying CFTR Channel Gating and Its Regulation. Methods in Molecular Biology, 2011, 741, 443-469.	0.4	3
47	CFTR gating: Invisible transitions made visible. Journal of General Physiology, 2017, 149, 413-416.	0.9	2
48	Direct and Indirect Effectors of the TRPM2 Cation Channel. Biophysical Journal, 2010, 98, 326a.	0.2	0
49	Effects of Extracellular Ca2+ on TRPM2 Channel Gating. Biophysical Journal, 2011, 100, 520a.	0.2	0
50	Linking the Catalytic Cycle of the Nucleotide Binding Domains to Channel Gating in CFTR. Biophysical Journal, 2011, 100, 364a.	0.2	0
51	Effects of a Non-Hydrolyzable ADP-Ribose Analog on the Gating of the TRPM2 Channel. Biophysical Journal, 2014, 106, 639a.	0.2	0
52	Degenerate but indispensable: How CFTR channel activity depends on the catalytically inactive ATP binding site. Journal of Physiology, 2021, 599, 4523-4524.	1.3	0
53	Sulfonylurea Receptors Type 1 and 2A Randomly Assemble to Form Heteromeric KATPChannels of Mixed Subunit Composition. Journal of Cell Biology, 2008, 180, i4-i4.	2.3	0