

Dejian Ren

List of Publications by Year in descending order

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37
papers

5,810
citations

147801

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8455
citing authors

#	ARTICLE	IF	CITATIONS
1	A growth-factor-activated lysosomal K ⁺ channel regulates Parkinson's pathology. <i>Nature</i> , 2021, 591, 431-437.	27.8	62
2	CLN7 is an organellar chloride channel regulating lysosomal function. <i>Science Advances</i> , 2021, 7, eabj9608.	10.3	20
3	Lipid-gated monovalent ion fluxes regulate endocytic traffic and support immune surveillance. <i>Science</i> , 2020, 367, 301-305.	12.6	104
4	Intellectual disability-associated UNC80 mutations reveal inter-subunit interaction and dendritic function of the NALCN channel complex. <i>Nature Communications</i> , 2020, 11, 3351.	12.8	17
5	ORAI1, STIM1/2, and RYR1 shape subsecond Ca ²⁺ microdomains upon T cell activation. <i>Science Signaling</i> , 2018, 11, .	3.6	59
6	NALCN channels enhance the intrinsic excitability of spinal projection neurons. <i>Pain</i> , 2018, 159, 1719-1730.	4.2	22
7	Respiratory Network Stability and Modulatory Response to Substance P Require Nalcn. <i>Neuron</i> , 2017, 94, 294-303.e4.	8.1	52
8	Cryo-electron microscopy structure of the lysosomal calcium-permeable channel TRPML3. <i>Nature</i> , 2017, 550, 411-414.	27.8	104
9	The lysosomal potassium channel TMEM175 adopts a novel tetrameric architecture. <i>Nature</i> , 2017, 547, 472-475.	27.8	57
10	Patch-clamp technique to characterize ion channels in enlarged individual endolysosomes. <i>Nature Protocols</i> , 2017, 12, 1639-1658.	12.0	68
11	Structure of the voltage-gated two-pore channel TPC1 from <i>Arabidopsis thaliana</i> . <i>Nature</i> , 2016, 531, 196-201.	27.8	216
12	Biallelic Mutations in UNC80 Cause Persistent Hypotonia, Encephalopathy, Growth Retardation, and Severe Intellectual Disability. <i>American Journal of Human Genetics</i> , 2016, 98, 202-209.	6.2	45
13	Lysosomal Physiology. <i>Annual Review of Physiology</i> , 2015, 77, 57-80.	13.1	768
14	A Conserved Bicycle Model for Circadian Clock Control of Membrane Excitability. <i>Cell</i> , 2015, 162, 836-848.	28.9	178
15	TMEM175 Is an Organelle K ⁺ Channel Regulating Lysosomal Function. <i>Cell</i> , 2015, 162, 1101-1112.	28.9	153
16	A non-inactivating high-voltage-activated two-pore Na ⁺ channel that supports ultra-long action potentials and membrane bistability. <i>Nature Communications</i> , 2014, 5, 5015.	12.8	36
17	The voltage-gated sodium channel TPC1 confers endolysosomal excitability. <i>Nature Chemical Biology</i> , 2014, 10, 463-469.	8.0	142
18	mTOR Regulates Lysosomal ATP-Sensitive Two-Pore Na ⁺ Channels to Adapt to Metabolic State. <i>Cell</i> , 2013, 152, 778-790.	28.9	313

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19	TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. <i>Cell</i> , 2012, 151, 372-383.	28.9	456
20	The Control of Male Fertility by Spermatozoan Ion Channels. <i>Annual Review of Physiology</i> , 2012, 74, 453-475.	13.1	291
21	Involvement of Na ⁺ -leak Channel in Substance P-induced Depolarization of Pacemaking Activity in Interstitial Cells of Cajal. <i>Cellular Physiology and Biochemistry</i> , 2012, 29, 501-510.	1.6	40
22	Sodium Leak Channels in Neuronal Excitability and Rhythmic Behaviors. <i>Neuron</i> , 2011, 72, 899-911.	8.1	128
23	Calcium Signaling in Sperm: Help from Prostasomes. <i>Science Signaling</i> , 2011, 4, pe27.	3.6	12
24	Genetic analysis of mice strains with variable serum sodium concentrations identifies the Nalcn sodium channel as a novel player in osmoregulation. <i>FASEB Journal</i> , 2011, 25, 662.6.	0.5	0
25	Calcium Signaling Through CatSper Channels in Mammalian Fertilization. <i>Physiology</i> , 2010, 25, 165-175.	3.1	108
26	Extracellular Calcium Controls Background Current and Neuronal Excitability via an UNC79-UNC80-NALCN Cation Channel Complex. <i>Neuron</i> , 2010, 68, 488-499.	8.1	176
27	A Novel, Single, Transmembrane Protein CATSPERG Is Associated with CATSPER1 Channel Protein1. <i>Biology of Reproduction</i> , 2009, 81, 539-544.	2.7	121
28	UNC80 functions as a scaffold for Src kinases in NALCN channel function. <i>Channels</i> , 2009, 3, 161-163.	2.8	28
29	Egg Coat Proteins Activate Calcium Entry into Mouse Sperm via CATSPER Channels1. <i>Biology of Reproduction</i> , 2009, 80, 1092-1098.	2.7	82
30	Peptide neurotransmitters activate a cation channel complex of NALCN and UNC-80. <i>Nature</i> , 2009, 457, 741-744.	27.8	145
31	The BSA-induced Ca(2+) influx during sperm capacitation is CATSPER channel-dependent. <i>Reproductive Biology and Endocrinology</i> , 2009, 7, 119.	3.3	100
32	CATSPER Channel-Mediated Ca2+ Entry into Mouse Sperm Triggers a Tail-to-Head Propagation1. <i>Biology of Reproduction</i> , 2007, 77, 551-559.	2.7	134
33	CatSper ¹ , a Novel Transmembrane Protein in the CatSper Channel Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 18945-18952.	3.4	148
34	The Neuronal Channel NALCN Contributes Resting Sodium Permeability and Is Required for Normal Respiratory Rhythm. <i>Cell</i> , 2007, 129, 371-383.	28.9	299
35	A Superfamily of Voltage-gated Sodium Channels in Bacteria*. <i>Journal of Biological Chemistry</i> , 2004, 279, 9532-9538.	3.4	147
36	The Cation Selectivity Filter of the Bacterial Sodium Channel, NaChBac. <i>Journal of General Physiology</i> , 2002, 120, 845-853.	1.9	141

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37	A sperm ion channel required for sperm motility and male fertility. Nature, 2001, 413, 603-609.	27.8	833