Haoxing Xu

List of Publications by Year in descending order

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83 papers	17,785 citations	31902 53 h-index	58464 82 g-index
88 all docs	88 docs citations	88 times ranked	26564 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Lysosomal calcium signalling regulates autophagy through calcineurin and TFEB. Nature Cell Biology, 2015, 17, 288-299.	4.6	1,006
3	TRPV3 is a calcium-permeable temperature-sensitive cation channel. Nature, 2002, 418, 181-186.	13.7	795
4	Lysosomal Physiology. Annual Review of Physiology, 2015, 77, 57-80.	5.6	768
5	Oregano, thyme and clove-derived flavors and skin sensitizers activate specific TRP channels. Nature Neuroscience, 2006, 9, 628-635.	7.1	552
6	PI(3,5)P2 controls membrane trafficking by direct activation of mucolipin Ca2+ release channels in the endolysosome. Nature Communications, 2010, 1, 38.	5.8	498
7	The type IV mucolipidosis-associated protein TRPML1 is an endolysosomal iron release channel. Nature, 2008, 455, 992-996.	13.7	463
8	A Prokaryotic Voltage-Gated Sodium Channel. Science, 2001, 294, 2372-2375.	6.0	461
9	TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. Cell, 2012, 151, 372-383.	13.5	456
10	Lipid storage disorders block lysosomal trafficking by inhibiting a TRP channel and lysosomal calcium release. Nature Communications, 2012, 3, 731.	5.8	387
11	MCOLN1 is a ROS sensor in lysosomes that regulates autophagy. Nature Communications, 2016, 7, 12109.	5.8	369
12	Phosphatidylinositol 3-Kinase Activates ERK in Primary Sensory Neurons and Mediates Inflammatory Heat Hyperalgesia through TRPV1 Sensitization. Journal of Neuroscience, 2004, 24, 8300-8309.	1.7	368
13	Camphor Activates and Strongly Desensitizes the Transient Receptor Potential Vanilloid Subtype 1 Channel in a Vanilloid-Independent Mechanism. Journal of Neuroscience, 2005, 25, 8924-8937.	1.7	340
14	A molecular mechanism to regulate lysosome motility for lysosome positioning and tubulation. Nature Cell Biology, 2016, 18, 404-417.	4.6	302
15	TRP ion channels in the nervous system. Current Opinion in Neurobiology, 2004, 14, 362-369.	2.0	301
16	TRP Channel Regulates EGFR Signaling in Hair Morphogenesis and Skin Barrier Formation. Cell, 2010, 141, 331-343.	13.5	287
17	Mechanisms of brain iron transport: insight into neurodegeneration and CNS disorders. Future Medicinal Chemistry, 2010, 2, 51-64.	1.1	257
18	A TRP Channel in the Lysosome Regulates Large Particle Phagocytosis via Focal Exocytosis. Developmental Cell, 2013, 26, 511-524.	3.1	244

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19	Structure of mammalian endolysosomal TRPML1 channel in nanodiscs. Nature, 2017, 550, 415-418.	13.7	244
20	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. British Journal of Pharmacology, 2019, 176, S142-S228.	2.7	242
21	Hippo/YAP-mediated rigidity-dependent motor neuron differentiation of human pluripotent stemÂcells. Nature Materials, 2014, 13, 599-604.	13.3	238
22	A TRP Channel Senses Lysosome Neutralization by Pathogens to Trigger Their Expulsion. Cell, 2015, 161, 1306-1319.	13.5	227
23	Mucolipins: Intracellular TRPML1â€3 channels. FEBS Letters, 2010, 584, 2013-2021.	1.3	212
24	Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varitintâ€“waddler mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18321-18326.	3.3	188
25	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. British Journal of Pharmacology, 2021, 178, S157-S245.	2.7	187
26	Up-regulation of lysosomal TRPML1 channels is essential for lysosomal adaptation to nutrient starvation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1373-81.	3.3	170
27	The endoplasmic reticulum, not the pH gradient, drives calcium refilling of lysosomes. ELife, 2016, 5, .	2.8	160
28	TRP channels of intracellular membranes. Journal of Neurochemistry, 2010, 113, 313-328.	2.1	153
29	The channel kinase, TRPM7 , is required for early embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E225-33.	3.3	153
30	A Superfamily of Voltage-gated Sodium Channels in Bacteria*. Journal of Biological Chemistry, 2004, 279, 9532-9538.	1.6	147
31	Lysosomal exocytosis and lipid storage disorders. Journal of Lipid Research, 2014, 55, 995-1009.	2.0	141
32	Phosphoinositide isoforms determine compartment-specific ion channel activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11384-11389.	3.3	131
33	Genetically encoded fluorescent probe to visualize intracellular phosphatidylinositol 3,5-bisphosphate localization and dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21165-21170.	3.3	119
34	PIKfyve Regulates Vacuole Maturation and Nutrient Recovery following Engulfment. Developmental Cell, 2016, 38, 536-547.	3.1	118
35	LC3 lipidation is essential for TFEB activation during the lysosomal damage response to kidney injury. Nature Cell Biology, 2020, 22, 1252-1263.	4.6	117
36	The voltage-gated Na+ channel NaVBP has a role in motility, chemotaxis, and pH homeostasis of an alkaliphilic Bacillus. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10566-10571.	3.3	105

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37	Lysosomal Ion Channels as Decoders of Cellular Signals. Trends in Biochemical Sciences, 2019, 44, 110-124.	3.7	105
38	Activating Mutations of the TRPML1 Channel Revealed by Proline-scanning Mutagenesis. Journal of Biological Chemistry, 2009, 284, 32040-32052.	1.6	102
39	The intracellular Ca2+ channel MCOLN1 is required for sarcolemma repair to prevent muscular dystrophy. Nature Medicine, 2014, 20, 1187-1192.	15.2	101
40	Biophysical and Molecular Mechanisms Underlying the Modulation of Heteromeric Kir4.1â€“Kir5.1 Channels by Co2 and Ph. Journal of General Physiology, 2000, 116, 33-46.	0.9	98
41	Identification of endogenous outward currents in the human embryonic kidney (HEK 293) cell line. Journal of Neuroscience Methods, 1998, 81, 73-83.	1.3	96
42	Activation of TRPML1 Clears Intraneuronal AÎ² in Preclinical Models of HIV Infection. Journal of Neuroscience, 2014, 34, 11485-11503.	1.7	91
43	Lysosome calcium in ROS regulation of autophagy. Autophagy, 2016, 12, 1954-1955.	4.3	90
44	Organellar channels and transporters. Cell Calcium, 2015, 58, 1-10.	1.1	83
45	Direct Activation of Cloned KATP Channels by Intracellular Acidosis. Journal of Biological Chemistry, 2001, 276, 12898-12902.	1.6	79
46	Release and uptake mechanisms of vesicular Ca2+ stores. Protein and Cell, 2019, 10, 8-19.	4.8	76
47	TRPML1: An Ion Channel in the Lysosome. Handbook of Experimental Pharmacology, 2014, 222, 631-645.	0.9	72
48	Rapamycin directly activates lysosomal mucolipin TRP channels independent of mTOR. PLoS Biology, 2019, 17, e3000252.	2.6	70
49	Calcium signaling in membrane repair. Seminars in Cell and Developmental Biology, 2015, 45, 24-31.	2.3	69
50	A voltage-dependent K+ channel in the lysosome is required for refilling lysosomal Ca2+ stores. Journal of Cell Biology, 2017, 216, 1715-1730.	2.3	69
51	Parkinsonâ€™s disease-risk protein TMEM175 is a proton-activated proton channel in lysosomes. Cell, 2022, 185, 2292-2308.e20.	13.5	69
52	Sulforaphane Activates a lysosome-dependent transcriptional program to mitigate oxidative stress. Autophagy, 2021, 17, 872-887.	4.3	68
53	A Spontaneous, Recurrent Mutation in Divalent Metal Transporter-1 Exposes a Calcium Entry Pathway. PLoS Biology, 2004, 2, e50.	2.6	60
54	Regulation of membrane trafficking by signalling on endosomal and lysosomal membranes. Journal of Physiology, 2013, 591, 4389-4401.	1.3	57

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55	Pairing phosphoinositides with calcium ions in endolysosomal dynamics. BioEssays, 2011, 33, 448-457.	1.2	55
56	Gastric Acid Secretion from Parietal Cells Is Mediated by a Ca2+ Efflux Channel in the Tubulovesicle. Developmental Cell, 2017, 41, 262-273.e6.	3.1	42
57	Organellar TRP channels. Nature Structural and Molecular Biology, 2018, 25, 1009-1018.	3.6	41
58	CO2 inhibits specific inward rectifier K+ channels by decreases in intra- and extracellular pH. Journal of Cellular Physiology, 2000, 183, 53-64.	2.0	39
59	Gating of Inward Rectifier K+ Channels by Proton-mediated Interactions of N- and C-terminal Domains. Journal of Biological Chemistry, 2000, 275, 31573-31580.	1.6	39
60	Distinct Histidine Residues Control the Acid-induced Activation and Inhibition of the Cloned KATP Channel. Journal of Biological Chemistry, 2001, 276, 38690-38696.	1.6	39
61	LRRC8 family proteins within lysosomes regulate cellular osmoregulation and enhance cell survival to multiple physiological stresses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29155-29165.	3.3	36
62	Lysosomal Zn2+ release triggers rapid, mitochondria-mediated, non-apoptotic cell death in metastatic melanoma. Cell Reports, 2021, 37, 109848.	2.9	34
63	Agonist-specific voltage-dependent gating of lysosomal two-pore Na+ channels. ELife, 2019, 8, .	2.8	32
64	Ryanodine receptor antagonists adapt NPC1 proteostasis to ameliorate lipid storage in Niemannâ€“Pick type C disease fibroblasts. Human Molecular Genetics, 2012, 21, 3205-3214.	1.4	31
65	Small-molecule activation of lysosomal TRP channels ameliorates Duchenne muscular dystrophy in mouse models. Science Advances, 2020, 6, eaaz2736.	4.7	31
66	An alternative approach to the identification of respiratory central chemoreceptors in the brainstem. Respiration Physiology, 2001, 129, 141-157.	2.8	30
67	Allosteric modulation of the mouse kir6.2 channel by intracellular H + and ATP. Journal of Physiology, 2002, 543, 495-504.	1.3	29
68	MCOLN1/TRPML1 finely controls oncogenic autophagy in cancer by mediating zinc influx. Autophagy, 2021, 17, 4401-4422.	4.3	29
69	Requirement of Multiple Protein Domains and Residues for GatingKATP Channels by Intracellular pH. Journal of Biological Chemistry, 2001, 276, 36673-36680.	1.6	28
70	Gastrin Induces Nuclear Export and Proteasome Degradation of Menin in Enteric Glial Cells. Gastroenterology, 2017, 153, 1555-1567.e15.	0.6	28
71	Visualization of Phosphatidylinositol 3,5-Bisphosphate Dynamics by a Tandem ML1N-Based Fluorescent Protein Probe in Arabidopsis. Plant and Cell Physiology, 2017, 58, 1185-1195.	1.5	27
72	Sub-nanomolar sensitive GZnP3 reveals TRPML1-mediated neuronal Zn2+ signals. Nature Communications, 2019, 10, 4806.	5.8	27

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73	A ÂconservedÂubiquitin- and ESCRT-dependent pathway internalizes human lysosomal membrane proteinsÂfor degradation. PLoS Biology, 2021, 19, e3001361.	2.6	22
74	Cell-autonomous regulation of epithelial cell quiescence by calcium channel Trpv6. ELife, 2019, 8, .	2.8	20
75	TRP channels in health and disease at a glance. Journal of Cell Science, 2021, 134, .	1.2	18
76	Gating of Inward Rectifier K+ Channels by Proton-Mediated Interactions of Intracellular Protein Domains. Trends in Cardiovascular Medicine, 2002, 12, 5-13.	2.3	15
77	Stac protein regulates release of neuropeptides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29914-29924.	3.3	9
78	Abnormal Somatosensory Behaviors Associated With a Gain-of-Function Mutation in TRPV3 Channels. Frontiers in Molecular Neuroscience, 2021, 14, 790435.	1.4	8
79	Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	7
80	A painful TR(i)P to lysosomes. Journal of Cell Biology, 2016, 215, 309-312.	2.3	2
81	Transient Receptor Potential channels (TRP) in GtoPdb v.2021.3. IUPHAR/BPS Guide To Pharmacology CITE, 2021, 2021, .	0.2	1
82	A protocol to measure lysosomal Zn2+ release through a genetically encoded Zn2+ indicator. STAR Protocols, 2022, 3, 101453.	0.5	1
83	Transient Receptor Potential channels (TRP) in GtoPdb v.2022.1. IUPHAR/BPS Guide To Pharmacology CITE, 2022, 2022, .	0.2	0