

Haoxing Xu

List of Publications by Year in descending order

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83
papers

17,785
citations

31976

53
h-index

58581

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). <i>Autophagy</i> , 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Lysosomal calcium signalling regulates autophagy through calcineurin and TFEB. <i>Nature Cell Biology</i> , 2015, 17, 288-299. | 10.3 | 1,006 |
| 3 | TRPV3 is a calcium-permeable temperature-sensitive cation channel. <i>Nature</i> , 2002, 418, 181-186. | 27.8 | 795 |
| 4 | Lysosomal Physiology. <i>Annual Review of Physiology</i> , 2015, 77, 57-80. | 13.1 | 768 |
| 5 | Oregano, thyme and clove-derived flavors and skin sensitizers activate specific TRP channels. <i>Nature Neuroscience</i> , 2006, 9, 628-635. | 14.8 | 552 |
| 6 | PI(3,5)P2 controls membrane trafficking by direct activation of mucolipin Ca ²⁺ release channels in the endolysosome. <i>Nature Communications</i> , 2010, 1, 38. | 12.8 | 498 |
| 7 | The type IV mucopolidosis-associated protein TRPML1 is an endolysosomal iron release channel. <i>Nature</i> , 2008, 455, 992-996. | 27.8 | 463 |
| 8 | A Prokaryotic Voltage-Gated Sodium Channel. <i>Science</i> , 2001, 294, 2372-2375. | 12.6 | 461 |
| 9 | TPC Proteins Are Phosphoinositide- Activated Sodium-Selective Ion Channels in Endosomes and Lysosomes. <i>Cell</i> , 2012, 151, 372-383. | 28.9 | 456 |
| 10 | Lipid storage disorders block lysosomal trafficking by inhibiting a TRP channel and lysosomal calcium release. <i>Nature Communications</i> , 2012, 3, 731. | 12.8 | 387 |
| 11 | MCOLN1 is a ROS sensor in lysosomes that regulates autophagy. <i>Nature Communications</i> , 2016, 7, 12109. | 12.8 | 369 |
| 12 | Phosphatidylinositol 3-Kinase Activates ERK in Primary Sensory Neurons and Mediates Inflammatory Heat Hyperalgesia through TRPV1 Sensitization. <i>Journal of Neuroscience</i> , 2004, 24, 8300-8309. | 3.6 | 368 |
| 13 | Camphor Activates and Strongly Desensitizes the Transient Receptor Potential Vanilloid Subtype 1 Channel in a Vanilloid-Independent Mechanism. <i>Journal of Neuroscience</i> , 2005, 25, 8924-8937. | 3.6 | 340 |
| 14 | A molecular mechanism to regulate lysosome motility for lysosome positioning and tubulation. <i>Nature Cell Biology</i> , 2016, 18, 404-417. | 10.3 | 302 |
| 15 | TRP ion channels in the nervous system. <i>Current Opinion in Neurobiology</i> , 2004, 14, 362-369. | 4.2 | 301 |
| 16 | TRP Channel Regulates EGFR Signaling in Hair Morphogenesis and Skin Barrier Formation. <i>Cell</i> , 2010, 141, 331-343. | 28.9 | 287 |
| 17 | Mechanisms of brain iron transport: insight into neurodegeneration and CNS disorders. <i>Future Medicinal Chemistry</i> , 2010, 2, 51-64. | 2.3 | 257 |
| 18 | A TRP Channel in the Lysosome Regulates Large Particle Phagocytosis via Focal Exocytosis. <i>Developmental Cell</i> , 2013, 26, 511-524. | 7.0 | 244 |

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|----|--|------|-----------|
| 19 | Structure of mammalian endolysosomal TRPML1 channel in nanodiscs. <i>Nature</i> , 2017, 550, 415-418. | 27.8 | 244 |
| 20 | THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. <i>British Journal of Pharmacology</i> , 2019, 176, S142-S228. | 5.4 | 242 |
| 21 | Hippo/YAP-mediated rigidity-dependent motor neuron differentiation of human pluripotent stem cells. <i>Nature Materials</i> , 2014, 13, 599-604. | 27.5 | 238 |
| 22 | A TRP Channel Senses Lysosome Neutralization by Pathogens to Trigger Their Expulsion. <i>Cell</i> , 2015, 161, 1306-1319. | 28.9 | 227 |
| 23 | Mucolipins: Intracellular TRPML1 channels. <i>FEBS Letters</i> , 2010, 584, 2013-2021. | 2.8 | 212 |
| 24 | Activating mutation in a mucolipin transient receptor potential channel leads to melanocyte loss in varint waddler mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18321-18326. | 7.1 | 188 |
| 25 | THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. <i>British Journal of Pharmacology</i> , 2021, 178, S157-S245. | 5.4 | 187 |
| 26 | Up-regulation of lysosomal TRPML1 channels is essential for lysosomal adaptation to nutrient starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1373-81. | 7.1 | 170 |
| 27 | The endoplasmic reticulum, not the pH gradient, drives calcium refilling of lysosomes. <i>ELife</i> , 2016, 5, . | 6.0 | 160 |
| 28 | TRP channels of intracellular membranes. <i>Journal of Neurochemistry</i> , 2010, 113, 313-328. | 3.9 | 153 |
| 29 | The channel kinase, <i>TRPM7</i> , is required for early embryonic development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E225-33. | 7.1 | 153 |
| 30 | A Superfamily of Voltage-gated Sodium Channels in Bacteria*. <i>Journal of Biological Chemistry</i> , 2004, 279, 9532-9538. | 3.4 | 147 |
| 31 | Lysosomal exocytosis and lipid storage disorders. <i>Journal of Lipid Research</i> , 2014, 55, 995-1009. | 4.2 | 141 |
| 32 | Phosphoinositide isoforms determine compartment-specific ion channel activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11384-11389. | 7.1 | 131 |
| 33 | Genetically encoded fluorescent probe to visualize intracellular phosphatidylinositol 3,5-bisphosphate localization and dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 21165-21170. | 7.1 | 119 |
| 34 | PIKfyve Regulates Vacuole Maturation and Nutrient Recovery following Engulfment. <i>Developmental Cell</i> , 2016, 38, 536-547. | 7.0 | 118 |
| 35 | LC3 lipidation is essential for TFEB activation during the lysosomal damage response to kidney injury. <i>Nature Cell Biology</i> , 2020, 22, 1252-1263. | 10.3 | 117 |
| 36 | The voltage-gated Na ⁺ channel NaVBP has a role in motility, chemotaxis, and pH homeostasis of an alkaliphilic <i>Bacillus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10566-10571. | 7.1 | 105 |

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|----|--|------|-----------|
| 37 | Lysosomal Ion Channels as Decoders of Cellular Signals. Trends in Biochemical Sciences, 2019, 44, 110-124. | 7.5 | 105 |
| 38 | Activating Mutations of the TRPML1 Channel Revealed by Proline-scanning Mutagenesis. Journal of Biological Chemistry, 2009, 284, 32040-32052. | 3.4 | 102 |
| 39 | The intracellular Ca ²⁺ channel MCOLN1 is required for sarcolemma repair to prevent muscular dystrophy. Nature Medicine, 2014, 20, 1187-1192. | 30.7 | 101 |
| 40 | Biophysical and Molecular Mechanisms Underlying the Modulation of Heteromeric Kir4.1-Kir5.1 Channels by Co2 and Ph. Journal of General Physiology, 2000, 116, 33-46. | 1.9 | 98 |
| 41 | Identification of endogenous outward currents in the human embryonic kidney (HEK 293) cell line. Journal of Neuroscience Methods, 1998, 81, 73-83. | 2.5 | 96 |
| 42 | Activation of TRPML1 Clears Intraneuronal A β in Preclinical Models of HIV Infection. Journal of Neuroscience, 2014, 34, 11485-11503. | 3.6 | 91 |
| 43 | Lysosome calcium in ROS regulation of autophagy. Autophagy, 2016, 12, 1954-1955. | 9.1 | 90 |
| 44 | Organelar channels and transporters. Cell Calcium, 2015, 58, 1-10. | 2.4 | 83 |
| 45 | Direct Activation of Cloned KATP Channels by Intracellular Acidosis. Journal of Biological Chemistry, 2001, 276, 12898-12902. | 3.4 | 79 |
| 46 | Release and uptake mechanisms of vesicular Ca ²⁺ stores. Protein and Cell, 2019, 10, 8-19. | 11.0 | 76 |
| 47 | TRPML1: An Ion Channel in the Lysosome. Handbook of Experimental Pharmacology, 2014, 222, 631-645. | 1.8 | 72 |
| 48 | Rapamycin directly activates lysosomal mucolipin TRP channels independent of mTOR. PLoS Biology, 2019, 17, e3000252. | 5.6 | 70 |
| 49 | Calcium signaling in membrane repair. Seminars in Cell and Developmental Biology, 2015, 45, 24-31. | 5.0 | 69 |
| 50 | A voltage-dependent K ⁺ channel in the lysosome is required for refilling lysosomal Ca ²⁺ stores. Journal of Cell Biology, 2017, 216, 1715-1730. | 5.2 | 69 |
| 51 | Parkinson's disease-risk protein TMEM175 is a proton-activated proton channel in lysosomes. Cell, 2022, 185, 2292-2308.e20. | 28.9 | 69 |
| 52 | Sulforaphane Activates a lysosome-dependent transcriptional program to mitigate oxidative stress. Autophagy, 2021, 17, 872-887. | 9.1 | 68 |
| 53 | A Spontaneous, Recurrent Mutation in Divalent Metal Transporter-1 Exposes a Calcium Entry Pathway. PLoS Biology, 2004, 2, e50. | 5.6 | 60 |
| 54 | Regulation of membrane trafficking by signalling on endosomal and lysosomal membranes. Journal of Physiology, 2013, 591, 4389-4401. | 2.9 | 57 |

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|----|---|------|-----------|
| 55 | Pairing phosphoinositides with calcium ions in endolysosomal dynamics. <i>BioEssays</i> , 2011, 33, 448-457. | 2.5 | 55 |
| 56 | Gastric Acid Secretion from Parietal Cells Is Mediated by a Ca ²⁺ Efflux Channel in the Tubulovesicle. <i>Developmental Cell</i> , 2017, 41, 262-273.e6. | 7.0 | 42 |
| 57 | Organelle TRP channels. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 1009-1018. | 8.2 | 41 |
| 58 | CO ₂ inhibits specific inward rectifier K ⁺ channels by decreases in intra- and extracellular pH. <i>Journal of Cellular Physiology</i> , 2000, 183, 53-64. | 4.1 | 39 |
| 59 | Gating of Inward Rectifier K ⁺ Channels by Proton-mediated Interactions of N- and C-terminal Domains. <i>Journal of Biological Chemistry</i> , 2000, 275, 31573-31580. | 3.4 | 39 |
| 60 | Distinct Histidine Residues Control the Acid-induced Activation and Inhibition of the Cloned KATP Channel. <i>Journal of Biological Chemistry</i> , 2001, 276, 38690-38696. | 3.4 | 39 |
| 61 | LRRRC8 family proteins within lysosomes regulate cellular osmoregulation and enhance cell survival to multiple physiological stresses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29155-29165. | 7.1 | 36 |
| 62 | Lysosomal Zn ²⁺ release triggers rapid, mitochondria-mediated, non-apoptotic cell death in metastatic melanoma. <i>Cell Reports</i> , 2021, 37, 109848. | 6.4 | 34 |
| 63 | Agonist-specific voltage-dependent gating of lysosomal two-pore Na ⁺ channels. <i>ELife</i> , 2019, 8, . | 6.0 | 32 |
| 64 | Ryanodine receptor antagonists adapt NPC1 proteostasis to ameliorate lipid storage in Niemann-Pick type C disease fibroblasts. <i>Human Molecular Genetics</i> , 2012, 21, 3205-3214. | 2.9 | 31 |
| 65 | Small-molecule activation of lysosomal TRP channels ameliorates Duchenne muscular dystrophy in mouse models. <i>Science Advances</i> , 2020, 6, eaaz2736. | 10.3 | 31 |
| 66 | An alternative approach to the identification of respiratory central chemoreceptors in the brainstem. <i>Respiration Physiology</i> , 2001, 129, 141-157. | 2.7 | 30 |
| 67 | Allosteric modulation of the mouse kir6.2 channel by intracellular H ⁺ and ATP. <i>Journal of Physiology</i> , 2002, 543, 495-504. | 2.9 | 29 |
| 68 | MCOLN1/TRPML1 finely controls oncogenic autophagy in cancer by mediating zinc influx. <i>Autophagy</i> , 2021, 17, 4401-4422. | 9.1 | 29 |
| 69 | Requirement of Multiple Protein Domains and Residues for Gating KATP Channels by Intracellular pH. <i>Journal of Biological Chemistry</i> , 2001, 276, 36673-36680. | 3.4 | 28 |
| 70 | Gastrin Induces Nuclear Export and Proteasome Degradation of Menin in Enteric Glial Cells. <i>Gastroenterology</i> , 2017, 153, 1555-1567.e15. | 1.3 | 28 |
| 71 | Visualization of Phosphatidylinositol 3,5-Bisphosphate Dynamics by a Tandem ML1N-Based Fluorescent Protein Probe in Arabidopsis. <i>Plant and Cell Physiology</i> , 2017, 58, 1185-1195. | 3.1 | 27 |
| 72 | Sub-nanomolar sensitive GZnP3 reveals TRPML1-mediated neuronal Zn ²⁺ signals. <i>Nature Communications</i> , 2019, 10, 4806. | 12.8 | 27 |

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|----|---|-----|-----------|
| 73 | A conserved ubiquitin- and ESCRT-dependent pathway internalizes human lysosomal membrane proteins for degradation. <i>PLoS Biology</i> , 2021, 19, e3001361. | 5.6 | 22 |
| 74 | Cell-autonomous regulation of epithelial cell quiescence by calcium channel Trpv6. <i>ELife</i> , 2019, 8, . | 6.0 | 20 |
| 75 | TRP channels in health and disease at a glance. <i>Journal of Cell Science</i> , 2021, 134, . | 2.0 | 18 |
| 76 | Gating of Inward Rectifier K ⁺ Channels by Proton-Mediated Interactions of Intracellular Protein Domains. <i>Trends in Cardiovascular Medicine</i> , 2002, 12, 5-13. | 4.9 | 15 |
| 77 | Stac protein regulates release of neuropeptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29914-29924. | 7.1 | 9 |
| 78 | Abnormal Somatosensory Behaviors Associated With a Gain-of-Function Mutation in TRPV3 Channels. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 790435. | 2.9 | 8 |
| 79 | Transient Receptor Potential channels (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019, 2019, . | 0.2 | 7 |
| 80 | A painful TR(i)P to lysosomes. <i>Journal of Cell Biology</i> , 2016, 215, 309-312. | 5.2 | 2 |
| 81 | Transient Receptor Potential channels (TRP) in GtoPdb v.2021.3. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2021, 2021, . | 0.2 | 1 |
| 82 | A protocol to measure lysosomal Zn ²⁺ release through a genetically encoded Zn ²⁺ indicator. <i>STAR Protocols</i> , 2022, 3, 101453. | 1.2 | 1 |
| 83 | Transient Receptor Potential channels (TRP) in GtoPdb v.2022.1. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2022, 2022, . | 0.2 | 0 |