# Xing-Zhen Chen

List of Publications by Year
in descending order



| 90 | 6,253 | 87888 38 | 69250 77 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 93 | 93 | 93 | 6219 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A family of mammalian Na+-dependent L-ascorbic acid transporters. Nature, 1999, 399, 70-75. | 27.8 | 822 |
| 2 | Molecular Cloning and Characterization of a Channel-like Transporter Mediating Intestinal Calcium Absorption. Journal of Biological Chemistry, 1999, 274, 22739-22746. | 3.4 | 546 |
| 3 | Molecular Identification and Characterization of Novel Human and Mouse Concentrative Na+-Nucleoside Cotransporter Proteins (hCNT3 and mCNT3) Broadly Selective for Purine and Pyrimidine Nucleosides (System cib). Journal of Biological Chemistry, 2001, 276, 2914-2927. | 3.4 | 302 |
| 4 | Detecting proteinâ€“protein interactions by far western blotting. Nature Protocols, 2007, 2, 3278-3284. | 12.0 | 287 |
| 5 | LncRNA PVT1 promotes gemcitabine resistance of pancreatic cancer via activating Wnt/Î²-catenin and autophagy pathway through modulating the miR-619-5p/Pygo2 and miR-619-5p/ATG14 axes. Molecular Cancer, 2020, 19, 118. | 19.2 | 233 |
| 6 | Polycystin-2 Is a Novel Cation Channel Implicated in Defective Intracellular Ca2+ Homeostasis in Polycystic Kidney Disease. Biochemical and Biophysical Research Communications, 2001, 282, 341-350. | 2.1 | 218 |
| 7 | Polycystin-L is a calcium-regulated cation channel permeable to calcium ions. Nature, 1999, 401, 383-386. | 27.8 | 200 |
| 8 | Human Calcium Transport Protein CaT1. Biochemical and Biophysical Research Communications, 2000, 278, 326-332. | 2.1 | 190 |
| 9 | Structural and molecular basis of the assembly of the TRPP2/PKD1 complex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11558-11563. | 7.1 | 163 |
| 10 | PKHD1 protein encoded by the gene for autosomal recessive polycystic kidney disease associates with basal bodies and primary cilia in renal epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2311-2316. | 7.1 | 160 |
| 11 | Yeast SMF1 Mediates H+-coupled Iron Uptake with Concomitant Uncoupled Cation Currents. Journal of Biological Chemistry, 1999, 274, 35089-35094. | 3.4 | 137 |
| 12 | A Rat Kidney-specific Calcium Transporter in the Distal Nephron. Journal of Biological Chemistry, 2000, 275, 28186-28194. | 3.4 | 137 |
| 13 | Fibrocystin/Polyductin Modulates Renal Tubular Formation by Regulating Polycystin-2 Expression and Function. Journal of the American Society of Nephrology: JASN, 2008, 19, 455-468. | 6.1 | 123 |
| 14 | Kinesin-2 mediates physical and functional interactions between polycystin-2 and fibrocystin. Human Molecular Genetics, 2006, 15, 3280-3292. | 2.9 | 115 |
| 15 | Title is missing!. Nature, 1999, 401, 383-386. | 27.8 | 110 |
| 16 | Alpha-actinin associates with polycystin-2 and regulates its channel activity. Human Molecular Genetics, 2005, 14, 1587-1603. | 2.9 | 100 |
| 17 | Characterization of a Rat Na+-Dicarboxylate Cotransporter. Journal of Biological Chemistry, 1998, 273, 20972-20981. | 3.4 | 99 |
| 18 | Molecular and functional analysis of SDCT2, a novel rat sodium-dependent dicarboxylate transporter. Journal of Clinical Investigation, 1999, 103, 1159-1168. | 8.2 | 95 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Functional Roles of Histidine and Tyrosine Residues in the H+-Peptide Transporter PepT1. Biochemical and Biophysical Research Communications, 2000, 272, 726-730. | 2.1 | 90 |
| 20 | Differential recognition of ACE inhibitors in Xenopus laevis oocytes expressing rat PEPT1 and PEPT2. Pharmaceutical Research, 2000, 17, 526-532. | 3.5 | 85 |
| 21 | Electrophysiological characterization of a recombinant human Na+-coupled nucleoside transporter (hCNT1) produced inXenopusoocytes. Journal of Physiology, 2004, 558, 807-823. | 2.9 | 84 |
| 22 | Polycystin-2 Associates with Tropomyosin-1, an Actin Microfilament Component. Journal of Molecular Biology, 2003, 325, 949-962. | 4.2 | 80 |
| 23 | Direct binding of Î±â€actinin enhances TRPP3 channel activity. Journal of Neurochemistry, 2007, 103, 2391-2400. | 3.9 | 77 |
| 24 | The Broadly Selective Human Na+/Nucleoside Cotransporter(hCNT3) Exhibits Novel Cation-coupled Nucleoside TransportCharacteristics. Journal of Biological Chemistry, 2005, 280, 25436-25449. | 3.4 | 73 |
| 25 | Polycystin-2 Interacts with Troponin I, an Angiogenesis Inhibitorâ€. Biochemistry, 2003, 42, 450-457. | 2.5 | 72 |
| 26 | Molecular genetics of cystinuria: Mutation analysis of SLC3A1 and evidence for another gene in the Type I (silent) phenotype. Kidney International, 1998, 54, 48-55. | 5.2 | 70 |
| 27 | Transport Function of the Naturally Occurring Pathogenic Polycystin-2 Mutant, R742X. Biochemical and Biophysical Research Communications, 2001, 282, 1251-1256. | 2.1 | 67 |
| 28 | Polycystin-2 Cation Channel Function Is under the Control of Microtubular Structures in Primary Cilia of Renal Epithelial Cells. Journal of Biological Chemistry, 2006, 281, 37566-37575. | 3.4 | 66 |
| 29 | A Novel Gene Encoding a TIG Multiple Domain Protein Is a Positional Candidate for Autosomal Recessive Polycystic Kidney Disease. Genomics, 2002, 80, 96-104. | 2.9 | 65 |
| 30 | Polycystin-2 Expression Is Regulated by a PC2-binding Domain in the Intracellular Portion of Fibrocystin. Journal of Biological Chemistry, 2008, 283, 31559-31566. | 3.4 | 63 |
| 31 | Stoichiometry and Kinetics of the High-affinity H+-coupled Peptide Transporter PepT2. Journal of Biological Chemistry, 1999, 274, 2773-2779. | 3.4 | 61 |
| 32 | Inhibition of TRPP3 Channel by Amiloride and Analogs. Molecular Pharmacology, 2007, 72, 1576-1585. | 2.3 | 60 |
| 33 | The ion channel function of polycystinâ€1 in the polycystinâ€1/polycystinâ€2 complex. EMBO Reports, 2019, 20, e48336. | 4.5 | 59 |
| 34 | Hydrophobic pore gates regulate ion permeation in polycystic kidney disease 2 and 2L1 channels. Nature Communications, 2018, 9, 2302. | 12.8 | 51 |
| 35 | A Universal Strategy for Constructing Robust and Antifouling Cellulose Nanocrystal Coating. Advanced Functional Materials, 2022, 32, 2109989. | 14.9 | 51 |
| 36 | Polycystin-2 down-regulates cell proliferation via promoting PERK-dependent phosphorylation of eIF2Î±. Human Molecular Genetics, 2008, 17, 3254-3262. | 2.9 | 50 |

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|---|---|---|---|
| 37 | Polycystin-2 is regulated by endoplasmic reticulum-associated degradation. Human Molecular Genetics, 2008, 17, 1109-1119. | 2.9 | 50 |
| 38 | TSPAN1 promotes autophagy flux and mediates cooperation between WNT-CTNNB1 signaling and autophagy via the MIR454-FAM83A-TSPAN1 axis in pancreatic cancer. Autophagy, 2021, 17, 3175-3195. | 9.1 | 47 |
| 39 | The calciumâ€binding EFâ€hand in polycystinâ€1 is not a domain for channel activation and ensuing inactivation. FEBS Letters, 2002, 516, 270-278. | 2.8 | 41 |
| 40 | Prognostic significance of PLIN1 expression in human breast cancer. Oncotarget, 2016, 7, 54488-54502. | 1.8 | 38 |
| 41 | Cytoskeletal regulation of calcium-permeable cation channels in the human syncytiotrophoblast: role of gelsolin. Journal of Physiology, 2005, 566, 309-325. | 2.9 | 37 |
| 42 | Direct Binding between Pre-S1 and TRP-like Domains in TRPP Channels Mediates Gating and Functional Regulation by PIP2. Cell Reports, 2018, 22, 1560-1573. | 6.4 | 37 |
| 43 | Polycystin-2 cation channel function in the human syncytiotrophoblast is regulated by microtubular structures. Journal of Physiology, 2007, 579, 717-728. | 2.9 | 35 |
| 44 | Effect of hydro-osmotic pressure on polycystin-2 channel function in the human syncytiotrophoblast. Pflugers Archiv European Journal of Physiology, 2005, 451, 294-303. | 2.8 | 34 |
| 45 | Co-chaperone Specificity in Gating of the Polypeptide Conducting Channel in the Membrane of the Human Endoplasmic Reticulum. Journal of Biological Chemistry, 2015, 290, 18621-18635. | 3.4 | 32 |
| 46 | Identification and characterization of hydrophobic gate residues in TRP channels. FASEB Journal, 2018, 32, 639-653. | 0.5 | 32 |
| 47 | Submembraneous microtubule cytoskeleton: interaction of TRPP2 with the cell cytoskeleton. FEBS Journal, 2008, 275, 4675-4683. | 4.7 | 31 |
| 48 | Identification of glycerol-3-phosphate dehydrogenase 1 as a tumour suppressor in human breast cancer. Oncotarget, 2017, 8, 101309-101324. | 1.8 | 31 |
| 49 | The S4â€“ÂÂS5 linker â€“ gearbox of TRP channel gating. Cell Calcium, 2017, 67, 156-165. | 2.4 | 28 |
| 50 | STYK1 promotes autophagy through enhancing the assembly of autophagy-specific class III phosphatidylinositol 3-kinase complex I. Autophagy, 2020, 16, 1786-1806. | 9.1 | 28 |
| 51 | Troponin I Binds Polycystin-l and Inhibits Its Calcium-Induced Channel Activation. Biochemistry, 2003, 42, 7618-7625. | 2.5 | 27 |
| 52 | Structural Interaction and Functional Regulation of Polycystin-2 by Filamin. PLoS ONE, 2012, 7, e40448. | 2.5 | 25 |
| 53 | Activation of the calcium-sensing receptor attenuates TRPV6-dependent intestinal calcium absorption. JCI Insight, 2019, 4, . | 5.0 | 25 |
| 54 | Purification and functional characterization of the vacuolar malate transporter tDT from Arabidopsis. Journal of Biological Chemistry, 2018, 293, 4180-4190. | 3.4 | 24 |

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|---|---|---|---|
| 55 | Receptor for Activated C Kinase 1 (RACK1) Inhibits Function of Transient Receptor Potential (TRP)-type Channel Pkd2L1 through Physical Interaction. Journal of Biological Chemistry, 2012, 287, 6551-6561. | 3.4 | 23 |
| 56 | Modulation of the human polycystin-L channel by voltage and divalent cations. FEBS Letters, 2002, 525, 71-76. | 2.8 | 22 |
| 57 | Two pools of IRE1Î± in cardiac and skeletal muscle cells. FASEB Journal, 2019, 33, 8892-8904. | 0.5 | 22 |
| 58 | Transient Receptor Potential Melastatin 8 (TRPM8) Channel Regulates Proliferation and Migration of Breast Cancer Cells by Activating the AMPK-ULK1 Pathway to Enhance Basal Autophagy. Frontiers in Oncology, 2020, 10, 573127. | 2.8 | 21 |
| 59 | A modified mammalian tandem affinity purification procedure to prepare functional polycystin-2 channel. FEBS Letters, 2004, 576, 231-236. | 2.8 | 19 |
| 60 | Filamin Interacts with Epithelial Sodium Channel and Inhibits Its Channel Function. Journal of Biological Chemistry, 2013, 288, 264-273. | 3.4 | 19 |
| 61 | Autoinhibition of TRPV6 Channel and Regulation by PIP2. IScience, 2020, 23, 101444. | 4.1 | 19 |
| 62 | More than colocalizing with polycystin-1, polycystin-l is in the centrosome. American Journal of Physiology - Renal Physiology, 2006, 291, F395-F406. | 2.7 | 15 |
| 63 | Regulation of TRPP3 Channel Function by N-terminal Domain Palmitoylation and Phosphorylation. Journal of Biological Chemistry, 2016, 291, 25678-25691. | 3.4 | 14 |
| 64 | Permeation and inhibition of polycystin-l channel by monovalent organic cations. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 197-205. | 2.6 | 13 |
| 65 | Expression of polycystins and fibrocystin on primary cilia of lung cells. Biochemistry and Cell Biology, 2014, 92, 547-554. | 2.0 | 13 |
| 66 | Filamin-A Increases the Stability and Plasma Membrane Expression of Polycystin-2. PLoS ONE, 2015, 10, e0123018. | 2.5 | 13 |
| 67 | Critical Roles of Two Hydrophobic Residues within Human Glucose Transporter 9 (hSLC2A9) in Substrate Selectivity and Urate Transport. Journal of Biological Chemistry, 2015, 290, 15292-15303. | 3.4 | 13 |
| 68 | Highly stretchable, elastic, antimicrobial conductive hydrogels with environment-adaptive adhesive property for health monitoring. Journal of Colloid and Interface Science, 2022, 622, 612-624. | 9.4 | 13 |
| 69 | A novel PKD2L1 C-terminal domain critical for trimerization and channel function. Scientific Reports, 2015, 5, 9460. | 3.3 | 11 |
| 70 | Translational upâ€regulation of polycystic kidney disease protein PKD2 by endoplasmic reticulum stress. FASEB Journal, 2013, 27, 4998-5009. | 0.5 | 10 |
| 71 | Far Upstream Element-Binding Protein 1 Binds the 3â€² Untranslated Region of PKD2 and Suppresses Its Translation. Journal of the American Society of Nephrology: JASN, 2016, 27, 2645-2657. | 6.1 | 10 |
| 72 | The kidney anion exchanger 1 affects tight junction properties via claudin-4. Scientific Reports, 2019, 9, 3099. | 3.3 | 10 |

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| 73 | Acid-induced off-response of PKD2L1 channel in Xenopus oocytes and its regulation by Ca2+. Scientific Reports, 2015, 5, 15752. | 3.3 | 9 |
| 74 | Ethnic Differences in Genetic Ion Channelopathies Associated with Sudden Cardiac Death: A Systematic Review and Meta-Analysis. Annals of Clinical and Laboratory Science, 2017, 47, 481-490. | 0.2 | 9 |
| 75 | Identification of Key Residues for Urate Specific Transport in Human Glucose Transporter 9 (hSLC2A9). Scientific Reports, 2017, 7, 41167. | 3.3 | 8 |
| 76 | TRIM4 interacts with TRPM8 and regulates its channel function through K423â€mediated ubiquitination. Journal of Cellular Physiology, 2021, 236, 2934-2949. | 4.1 | 8 |
| 77 | Auto-inhibitory intramolecular S5/S6 interaction in the TRPV6 channel regulates breast cancer cell migration and invasion. Communications Biology, 2021, 4, 990. | 4.4 | 8 |
| 78 | The Fabp5/calnexin complex is a prerequisite for sensitization of mice to experimental autoimmune encephalomyelitis. FASEB Journal, 2020, 34, 16662-16675. | 0.5 | 7 |
| 79 | Pygopus2 inhibits the efficacy of paclitaxel-induced apoptosis and induces multidrug resistance in human glioma cells. Oncotarget, 2017, 8, 27915-27928. | 1.8 | 7 |
| 80 | Polycystin-1 inhibits eIF2Î± phosphorylation and cell apoptosis through a PKR-eIF2Î± pathway. Scientific Reports, 2017, 7, 11493. | 3.3 | 6 |
| 81 | Unveiling the Distinct Mechanisms by which Disease-Causing Mutations in the Kelch Domain of KLHL3 Disrupt the Interaction with the Acidic Motif of WNK4 through Molecular Dynamics Simulation. Biochemistry, 2019, 58, 2105-2115. | 2.5 | 6 |
| 82 | Identification of Homer1 as a Potential Prognostic Marker for Intrahepatic Cholangiocarcinoma. Asian Pacific Journal of Cancer Prevention, 2014, 15, 3299-3304. | 1.2 | 6 |
| 83 | The LCK-14-3-3Î¶-TRPM8 axis regulates TRPM8 function/assembly and promotes pancreatic cancer malignancy. Cell Death and Disease, 2022, 13, . | 6.3 | 6 |
| 84 | Zebrafish TARP Cacng2 is required for the expression and normal development of AMPA receptors at excitatory synapses. Developmental Neurobiology, 2016, 76, 487-506. | 3.0 | 5 |
| 85 | Role of PKR in the Inhibition of Proliferation and Translation by Polycystin-1. BioMed Research International, 2019, 2019, 1-8. | 1.9 | 5 |
| 86 | The Cytoskeletal Connection to Ion Channels as a Potential Mechanosensory Mechanism: Lessons from Polycystinâ€2 (TRPP2). Current Topics in Membranes, 2007, 59, 233-296. | 0.9 | 4 |
| 87 | Tauroursodeoxycholic acid attenuates cyclosporine-induced renal fibrogenesis in the mouse model. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1210-1216. | 2.4 | 4 |
| 88 | Ion permeation controlled by hydrophobic residues and proton binding in the proton-activated chloride channel. IScience, 2021, 24, 103395. | 4.1 | 4 |
| 89 | Inhibition of polycystin-L channel by the Chinese herb Sparganum stoloniferum Buch.-Ham.. Canadian Journal of Physiology and Pharmacology, 2006, 84, 923-927. | 1.4 | 3 |
| 90 | Polycystin-1 Inhibits Cell Proliferation through Phosphatase PP2A/B56Î±. BioMed Research International, 2019, 2019, 1-8. | 1.9 | 3 |