

# Xiao-dong Zhang

## List of Publications by Year in descending order

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31  
papers

714  
citations

567281

15  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of protein quality control of the human ether-Å-go-go related gene K <sup>+</sup> channel results in profound long QT syndrome. <i>Heart Rhythm</i> , 2022, 19, 281-292.	0.7	7
2	Beat-to-beat dynamic regulation of intracellular pH in cardiomyocytes. <i>IScience</i> , 2022, 25, 103624.	4.1	4
3	Protocol to record and quantify the intracellular pH in contracting cardiomyocytes. <i>STAR Protocols</i> , 2022, 3, 101301.	1.2	1
4	Cardiac small-conductance calcium-activated potassium channels in health and disease. <i>Pflugers Archiv European Journal of Physiology</i> , 2021, 473, 477-489.	2.8	21
5	Transgene Delivery to Human Induced Pluripotent Stem Cells Using Nanoparticles. <i>Pharmaceuticals</i> , 2021, 14, 334.	3.8	3
6	Prestin amplifies cardiac motor functions. <i>Cell Reports</i> , 2021, 35, 109097.	6.4	17
7	Protocol to assess two distinct components of the nonlinear capacitance in mouse cardiomyocytes. <i>STAR Protocols</i> , 2021, 2, 100891.	1.2	0
8	Suppression of inflammation and fibrosis using soluble epoxide hydrolase inhibitors enhances cardiac stem cell-based therapy. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1570-1584.	3.3	12
9	NODAL inhibition promotes differentiation of pacemaker-like cardiomyocytes from human induced pluripotent stem cells. <i>Stem Cell Research</i> , 2020, 49, 102043.	0.7	19
10	Cooperativity of K <sup>v</sup> 7.4 channels confers ultrafast electromechanical sensitivity and emergent properties in cochlear outer hair cells. <i>Science Advances</i> , 2020, 6, eaba1104.	10.3	26
11	Different arrhythmia-associated calmodulin mutations have distinct effects on cardiac SK channel regulation. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	7
12	The local translation of KNa in dendritic projections of auditory neurons and the roles of KNa in the transition from hidden to overt hearing loss. <i>Aging</i> , 2019, 11, 11541-11564.	3.1	9
13	Coupling of SK channels, L-type Ca <sup>2+</sup> channels, and ryanodine receptors in cardiomyocytes. <i>Scientific Reports</i> , 2018, 8, 4670.	3.3	30
14	Highly efficient transfection of human induced pluripotent stem cells using magnetic nanoparticles. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 6073-6078.	6.7	18
15	Contribution of the cyclic nucleotide gated channel subunit, CNG-3, to olfactory plasticity in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2017, 7, 169.	3.3	18
16	Action Potential Shortening and Impairment of Cardiac Function by Ablation of <i>Slc26a6</i> . <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	4.8	17
17	Distinct subcellular mechanisms for the enhancement of the surface membrane expression of SK2 channel by its interacting proteins, $\beta$ -actinin2 and filamin A. <i>Journal of Physiology</i> , 2017, 595, 2271-2284.	2.9	18
18	Molecular Mechanisms and New Treatment Paradigm for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	4.8	39

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19	Mechanisms of Calmodulin Regulation of Different Isoforms of Kv7.4 K <sup>+</sup> Channels. <i>Journal of Biological Chemistry</i> , 2016, 291, 2499-2509.	3.4	17
20	Regulation of Gene Transcription by Voltage-gated L-type Calcium Channel, Cav1.3. <i>Journal of Biological Chemistry</i> , 2015, 290, 4663-4676.	3.4	44
21	Novel Role for Caspase-Activated DNase in the Regulation of Pathological Cardiac Hypertrophy. <i>Hypertension</i> , 2015, 65, 871-881.	2.7	30
22	Small-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channels and cardiac arrhythmias. <i>Heart Rhythm</i> , 2015, 12, 1845-1851.	0.7	62
23	Feedback Mechanisms for Cardiac-Specific MicroRNAs and cAMP Signaling in Electrical Remodeling. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 942-950.	4.8	16
24	Critical roles of a small conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channel (SK3) in the repolarization process of atrial myocytes. <i>Cardiovascular Research</i> , 2014, 101, 317-325.	3.8	73
25	Genetic, Cellular, and Functional Evidence for Ca <sup>2+</sup> Inflow through Ca <sub>v</sub> 1.2 and Ca <sub>v</sub> 1.3 Channels in Murine Spiral Ganglion Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 7383-7393.	3.6	19
26	Interferon Regulatory Factor 1 Is Required for Cardiac Remodeling in Response to Pressure Overload. <i>Hypertension</i> , 2014, 64, 77-86.	2.7	75
27	Slc26a6 functions as an electrogenic Cl <sup>-</sup> /HCO <sub>3</sub> <sup>-</sup> exchanger in cardiac myocytes. <i>Cardiovascular Research</i> , 2013, 100, 383-391.	3.8	15
28	Amphiphilic Blockers Punch through a Mutant CLC-0 Pore. <i>Journal of General Physiology</i> , 2009, 133, 59-68.	1.9	12
29	Blocking Pore-open Mutants of CLC-0 by Amphiphilic Blockers. <i>Journal of General Physiology</i> , 2009, 133, 43-58.	1.9	14
30	ATP Inhibition of CLC-1 Is Controlled by Oxidation and Reduction. <i>Journal of General Physiology</i> , 2008, 132, 421-428.	1.9	48
31	Roles of K149, G352, and H401 in the Channel Functions of CLC-0: Testing the Predictions from Theoretical Calculations. <i>Journal of General Physiology</i> , 2006, 127, 435-447.	1.9	23