Zhe Lu

List of Publications by Year
in descending order

25	1,803	567281 15	580821 25
papers	citations	h-index	g-index

28	28	28	1724
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ion conduction pore is conserved among potassium channels. Nature, 2001, 413, 809-813.	27.8	291
2	Coupling between Voltage Sensors and Activation Gate in Voltage-gated K+ Channels. Journal of General Physiology, 2002, 120, 663-676.	1.9	289
3	A Novel High-Affinity Inhibitor for Inward-Rectifier K⁺ Channels. Biochemistry, 1998, 37, 13291-13299.	2.5	207
4	Mechanism of Rectification in Inward-Rectifier K+ Channels. Annual Review of Physiology, 2004, 66, 103-129.	13.1	179
5	Synthesis of a Stable Form of Tertiapin:Â A High-Affinity Inhibitor for Inward-Rectifier K+Channelsâ€. Biochemistry, 1999, 38, 14286-14293.	2.5	130
6	The antioxidant role of thiocyanate in the pathogenesis of cystic fibrosis and other inflammation-related diseases. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20515-20519.	7.1	116
7	Mechanisms of Inward-Rectifier K+Channel Inhibition by Tertiapin-Qâ€. Biochemistry, 1999, 38, 14294-14301.	2.5	101
8	Coupled Ion Movement Underlies Rectification in an Inward-Rectifier K+ Channel. Journal of General Physiology, 1998, 112, 211-221.	1.9	96
9	Mechanism of Irk1 Channel Block by Intracellular Polyamines. Journal of General Physiology, 2000, 115, 799-814.	1.9	61
10	Crystal structure of an inactivated mutant mammalian voltage-gated K+ channel. Nature Structural and Molecular Biology, 2017, 24, 857-865.	8.2	56
11	Mechanism of Cgmp-Gated Channel Block by Intracellular Polyamines. Journal of General Physiology, 2000, 115, 783-798.	1.9	47
12	Pore Block versus Intrinsic Gating in the Mechanism of Inward Rectification in Strongly Rectifying Irk1 Channels. Journal of General Physiology, 2000, 116, 561-568.	1.9	39
13	Tuning the Voltage Dependence of Tetraethylammonium Block with Permeant Ions in an Inward-Rectifier K+ Channel. Journal of General Physiology, 1999, 114, 415-426.	1.9	36
14	Kinetics of Inward-Rectifier K+ Channel Block by Quaternary Alkylammonium Ions. Journal of General Physiology, 2001, 117, 395-406.	1.9	31
15	Short Variable Sequence Acquired in Evolution Enables Selective Inhibition of Various Inward-Rectifier K+ Channels. Biochemistry, 2004, 43, 10701-10709.	2.5	31
16	Solution structure of potassium channel-inhibiting scorpion toxin Lq2. Proteins: Structure, Function and Bioinformatics, 1999, 34, 417-426.	2.6	15
17	Deletion of the lactoperoxidase gene causes multisystem inflammation and tumors in mice. Scientific Reports, 2021, 11, 12429.	3.3	15
18	A novel high-affinity inhibitor against the human ATP-sensitive Kir6.2 channel. Journal of General Physiology, 2018, 150, 969-976.	1.9	13

#	Article	IF	Citations
19	Sphingomyelinase D inhibits store-operated Ca2+ entry in T lymphocytes by suppressing ORAI current. Journal of General Physiology, 2015, 146, 161-172.	1.9	12
20	Resolution of Ã¥ngstrÃ¶m-scale protein conformational changes by analyzing fluorescence anisotropy. Nature Structural and Molecular Biology, 2019, 26, 802-807.	8.2	10
21	A family of orthologous proteins from centipede venoms inhibit the hKir6.2 channel. Scientific Reports, 2019, 9, 14088.	3.3	8
22	Integrating spatiotemporal features of a ligand-regulated, multi-state allosteric protein. Nature Structural and Molecular Biology, 2019, 26, 816-822.	8.2	7
23	Energetics of Ã¥ngstrÃ¶m-scale conformational changes in an RCK domain of the MthK K+ channel. Nature Structural and Molecular Biology, 2019, 26, 808-815.	8.2	6
24	Blocking Kir6.2 channels with SpTx1 potentiates glucose-stimulated insulin secretion from murine pancreatic Î² cells and lowers blood glucose in diabetic mice. ELife, 2022, 11, .	6.0	4
25	Counteracting suppression of CFTR and voltage-gated K+ channels by a bacterial pathogenic factor with the natural product tannic acid. ELife, 2014, 3, e03683.	6.0	3