

# Zhe Lu

## List of Publications by Year in descending order

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25  
papers

1,803  
citations

567281

15  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1724  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blocking Kir6.2 channels with SpTx1 potentiates glucose-stimulated insulin secretion from murine pancreatic $\beta^2$ cells and lowers blood glucose in diabetic mice. <i>ELife</i> , 2022, 11, .	6.0	4
2	Deletion of the lactoperoxidase gene causes multisystem inflammation and tumors in mice. <i>Scientific Reports</i> , 2021, 11, 12429.	3.3	15
3	Energetics of Ångström-scale conformational changes in an RCK domain of the MthK K <sup>+</sup> channel. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 808-815.	8.2	6
4	Integrating spatiotemporal features of a ligand-regulated, multi-state allosteric protein. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 816-822.	8.2	7
5	Resolution of Ångström-scale protein conformational changes by analyzing fluorescence anisotropy. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 802-807.	8.2	10
6	A family of orthologous proteins from centipede venoms inhibit the hKir6.2 channel. <i>Scientific Reports</i> , 2019, 9, 14088.	3.3	8
7	A novel high-affinity inhibitor against the human ATP-sensitive Kir6.2 channel. <i>Journal of General Physiology</i> , 2018, 150, 969-976.	1.9	13
8	Crystal structure of an inactivated mutant mammalian voltage-gated K <sup>+</sup> channel. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 857-865.	8.2	56
9	Sphingomyelinase D inhibits store-operated Ca <sup>2+</sup> entry in T lymphocytes by suppressing ORAI current. <i>Journal of General Physiology</i> , 2015, 146, 161-172.	1.9	12
10	Counteracting suppression of CFTR and voltage-gated K <sup>+</sup> channels by a bacterial pathogenic factor with the natural product tannic acid. <i>ELife</i> , 2014, 3, e03683.	6.0	3
11	The antioxidant role of thiocyanate in the pathogenesis of cystic fibrosis and other inflammation-related diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20515-20519.	7.1	116
12	Short Variable Sequence Acquired in Evolution Enables Selective Inhibition of Various Inward-Rectifier K <sup>+</sup> Channels. <i>Biochemistry</i> , 2004, 43, 10701-10709.	2.5	31
13	Mechanism of Rectification in Inward-Rectifier K <sup>+</sup> Channels. <i>Annual Review of Physiology</i> , 2004, 66, 103-129.	13.1	179
14	Coupling between Voltage Sensors and Activation Gate in Voltage-gated K <sup>+</sup> Channels. <i>Journal of General Physiology</i> , 2002, 120, 663-676.	1.9	289
15	Ion conduction pore is conserved among potassium channels. <i>Nature</i> , 2001, 413, 809-813.	27.8	291
16	Kinetics of Inward-Rectifier K <sup>+</sup> Channel Block by Quaternary Alkylammonium Ions. <i>Journal of General Physiology</i> , 2001, 117, 395-406.	1.9	31
17	Pore Block versus Intrinsic Gating in the Mechanism of Inward Rectification in Strongly Rectifying Irk1 Channels. <i>Journal of General Physiology</i> , 2000, 116, 561-568.	1.9	39
18	Mechanism of Cgmp-Gated Channel Block by Intracellular Polyamines. <i>Journal of General Physiology</i> , 2000, 115, 783-798.	1.9	47

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19	Mechanism of Irk1 Channel Block by Intracellular Polyamines. <i>Journal of General Physiology</i> , 2000, 115, 799-814.	1.9	61
20	Tuning the Voltage Dependence of Tetraethylammonium Block with Permeant Ions in an Inward-Rectifier K <sup>+</sup> Channel. <i>Journal of General Physiology</i> , 1999, 114, 415-426.	1.9	36
21	Solution structure of potassium channel-inhibiting scorpion toxin Lq2. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 34, 417-426.	2.6	15
22	Synthesis of a Stable Form of Tertiapin: A High-Affinity Inhibitor for Inward-Rectifier K <sup>+</sup> Channels. <i>Biochemistry</i> , 1999, 38, 14286-14293.	2.5	130
23	Mechanisms of Inward-Rectifier K <sup>+</sup> Channel Inhibition by Tertiapin-Q. <i>Biochemistry</i> , 1999, 38, 14294-14301.	2.5	101
24	A Novel High-Affinity Inhibitor for Inward-Rectifier K <sup>+</sup> Channels. <i>Biochemistry</i> , 1998, 37, 13291-13299.	2.5	207
25	Coupled Ion Movement Underlies Rectification in an Inward-Rectifier K <sup>+</sup> Channel. <i>Journal of General Physiology</i> , 1998, 112, 211-221.	1.9	96