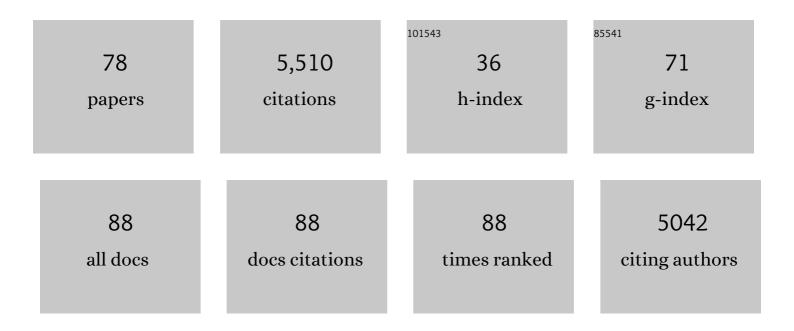
## Jianmin Cui

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Coupling between Ca2+ binding and the activation gate opening in BK channels probed by an allosteric activator. Biophysical Journal, 2022, 121, 295a.	0.5	0
2	Neuronal mechanism of a BK channelopathy in absence epilepsy and dyskinesia. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200140119.	7.1	14
3	A benzodiazepine activator locks Kv7.1 channels open by electro-mechanical uncoupling. Communications Biology, 2022, 5, 301.	4.4	7
4	Modulating the voltage sensor of a cardiac potassium channel shows antiarrhythmic effects. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
5	Sonothermogenetics for noninvasive and cell-type specific deep brain neuromodulation. Brain Stimulation, 2021, 14, 790-800.	1.6	44
6	BK Channel Gating Mechanisms: Progresses Toward a Better Understanding of Variants Linked Neurological Diseases. Frontiers in Physiology, 2021, 12, 762175.	2.8	11
7	A PIP2 substitute mediates voltage sensor-pore coupling in KCNQ activation. Communications Biology, 2020, 3, 385.	4.4	22
8	Calmodulin acts as a state-dependent switch to control a cardiac potassium channel opening. Science Advances, 2020, 6, .	10.3	38
9	TMEM16A-inhibitor loaded pH-responsive nanoparticles: A novel dual-targeting antitumor therapy for lung adenocarcinoma. Biochemical Pharmacology, 2020, 178, 114062.	4.4	15
10	Coupling of Ca <sup>2+</sup> and voltage activation in BK channels through the αB helix/voltage sensor interface. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14512-14521.	7.1	19
11	A <scp>Gainâ€ofâ€Function</scp> Mutation in <scp> <i>KCNMA1</i> </scp> Causes Dystonia Spells Controlled With Stimulant Therapy. Movement Disorders, 2020, 35, 1868-1873.	3.9	21
12	Two-stage electro–mechanical coupling of a KV channel in voltage-dependent activation. Nature Communications, 2020, 11, 676.	12.8	46
13	The action of a BK channel opener. Journal of General Physiology, 2020, 152, .	1.9	4
14	Structure and physiological function of the human KCNQ1 channel voltage sensor intermediate state. ELife, 2020, 9, .	6.0	36
15	Aromatic interactions with membrane modulate human BK channel activation. ELife, 2020, 9, .	6.0	2
16	Molecular game theory for a toxin-dominant food chain model. National Science Review, 2019, 6, 1191-1200.	9.5	6
17	ML277 specifically enhances the fully activated open state of KCNQ1 by modulating VSD-pore coupling. ELife, 2019, 8, .	6.0	28
18	Patch-Clamp and Perfusion Techniques to Study Ion Channels Expressed in <i>Xenopus</i> Oocytes. Cold Spring Harbor Protocols, 2018, 2018, pdb.prot099051.	0.3	5

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19	Centipedes subdue giant prey by blocking KCNQ channels. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1646-1651.	7.1	47
20	Hydrophobic gating in BK channels. Nature Communications, 2018, 9, 3408.	12.8	70
21	Thiazolidine reacts with thioreactive biomolecules. Free Radical Biology and Medicine, 2017, 104, 272-279.	2.9	1
22	Deletion of cytosolic gating ring decreases gate and voltage sensor coupling in BK channels. Journal of General Physiology, 2017, 149, 373-387.	1.9	24
23	A clinical and mechanistic study of topical borneolâ€induced analgesia. EMBO Molecular Medicine, 2017, 9, 802-815.	6.9	63
24	Threading the biophysics of mammalian Slo1 channels onto structures of an invertebrate Slo1 channel. Journal of General Physiology, 2017, 149, 985-1007.	1.9	30
25	Inactivation of KCNQ1 potassium channels reveals dynamic coupling between voltage sensing and pore opening. Nature Communications, 2017, 8, 1730.	12.8	65
26	Pro-arrhythmogenic Effects of the V141M KCNQ1 Mutation in Short QT Syndrome and Its Potential Therapeutic Targets: Insights from Modeling. Journal of Medical and Biological Engineering, 2017, 37, 780-789.	1.8	23
27	Ultrasound modulates ion channel currents. Scientific Reports, 2016, 6, 24170.	3.3	241
28	<scp>TRPA</scp> 1 and <scp>TRPV</scp> 1 contribute to iodine antisepticsâ€associated pain and allergy. EMBO Reports, 2016, 17, 1422-1430.	4.5	10
29	LRP6 acts as a scaffold protein in cardiac gap junction assembly. Nature Communications, 2016, 7, 11775.	12.8	30
30	Voltage-Dependent Gating: Novel Insights from KCNQ1 Channels. Biophysical Journal, 2016, 110, 14-25.	0.5	66
31	PIP2-dependent coupling is prominent in Kv7.1 due to weakened interactions between S4-S5 and S6. Scientific Reports, 2015, 5, 7474.	3.3	53
32	BK channels: multiple sensors, one activation gate. Frontiers in Physiology, 2015, 6, 29.	2.8	101
33	Direct Measurement of Cardiac Na <sup>+</sup> Channel Conformations Reveals Molecular Pathologies of Inherited Mutations. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1228-1239.	4.8	32
34	PIP2 regulation of KCNQ channels: biophysical and molecular mechanisms for lipid modulation of voltage-dependent gating. Frontiers in Physiology, 2014, 5, 195.	2.8	104
35	Conopeptide Vt3.1 Preferentially Inhibits BK Potassium Channels Containing β4 Subunits via Electrostatic Interactions. Journal of Biological Chemistry, 2014, 289, 4735-4742.	3.4	15
36	A Charged Residue in S4 Regulates Coupling among the Activation Gate, Voltage, and Ca <sup>2+</sup> Sensors in BK Channels. Journal of Neuroscience, 2014, 34, 12280-12288.	3.6	20

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37	Domain–domain interactions determine the gating, permeation, pharmacology, and subunit modulation of the IKs ion channel. ELife, 2014, 3, e03606.	6.0	81
38	Kv7.1 ion channels require a lipid to couple voltage sensing to pore opening. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13180-13185.	7.1	170
39	Modulation of KCNQ1 alternative splicing regulates cardiac IKs and action potential repolarization. Heart Rhythm, 2013, 10, 1220-1228.	0.7	13
40	Interaction between residues in the Mg2+-binding site regulates BK channel activation. Journal of General Physiology, 2013, 141, 217-228.	1.9	22
41	FMRP Regulates Neurotransmitter Release and Synaptic Information Transmission by Modulating Action Potential Duration via BK Channels. Neuron, 2013, 77, 696-711.	8.1	307
42	Intracellular ATP binding is required to activate the slowly activating K <sup>+</sup> channel I <sub>Ks</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18922-18927.	7.1	39
43	The Interface between Membrane-Spanning and Cytosolic Domains in Ca2+-Dependent K+ Channels Is Involved in  Subunit Modulation of Gating. Journal of Neuroscience, 2013, 33, 11253-11261.	3.6	15
44	Ion Channel Associated Diseases: Overview of Molecular Mechanisms. Chemical Reviews, 2012, 112, 6319-6333.	47.7	47
45	Regulation of Voltage-Activated K+ Channel Gating by Transmembrane β Subunits. Frontiers in Pharmacology, 2012, 3, 63.	3.5	50
46	Prolyl hydroxylase 2: a novel regulator of β2-adrenoceptor internalization. Journal of Cellular and Molecular Medicine, 2011, 15, 2712-2722.	3.6	9
47	KCNE1 enhances phosphatidylinositol 4,5-bisphosphate (PIP <sub>2</sub> ) sensitivity of I <sub> <i>Ks</i> </sub> to modulate channel activity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9095-9100.	7.1	103
48	β <sub>2</sub> - but not β <sub>1</sub> -adrenoceptor activation modulates intracellular oxygen availability. Journal of Physiology, 2010, 588, 2987-2998.	2.9	32
49	BK-type calcium-activated potassium channels: coupling of metal ions and voltage sensing. Journal of Physiology, 2010, 588, 4651-4658.	2.9	25
50	Reduction of CaV channel activities by Ca2+–CaM: inactivation or deactivation?. Journal of General Physiology, 2010, 135, 297-301.	1.9	2
51	lon sensing in the RCK1 domain of BK channels. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18700-18705.	7.1	78
52	Modulation of BK Channel Gating by the β2 Subunit Involves Both Membrane-Spanning and Cytoplasmic Domains of Slo1. Journal of Neuroscience, 2010, 30, 16170-16179.	3.6	26
53	State-dependent electrostatic interactions of S4 arginines with E1 in S2 during Kv7.1 activation. Journal of General Physiology, 2010, 135, 595-606.	1.9	85
54	KCNE1 Remodels the Voltage Sensor of Kv7.1 to Modulate Channel Function. Biophysical Journal, 2010, 99, 3599-3608.	0.5	50

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55	An Epilepsy/Dyskinesia-Associated Mutation Enhances BK Channel Activation by Potentiating Ca2+ Sensing. Neuron, 2010, 66, 871-883.	8.1	110
56	BK channel activation: structural and functional insights. Trends in Neurosciences, 2010, 33, 415-423.	8.6	225
57	A multiscale model linking ion-channel molecular dynamics and electrostatics to the cardiac action potential. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11102-11106.	7.1	124
58	β subunitâ€specific modulations of BK channel function by a mutation associated with epilepsy and dyskinesia. Journal of Physiology, 2009, 587, 1481-1498.	2.9	52
59	Activation of Slo1 BK channels by Mg2+ coordinated between the voltage sensor and RCK1 domains. Nature Structural and Molecular Biology, 2008, 15, 1152-1159.	8.2	90
60	Effects of extracellular calcium on cell membrane resealing in sonoporation. Journal of Controlled Release, 2008, 126, 34-43.	9.9	96
61	Subunit-Specific Effect of the Voltage Sensor Domain on Ca2+ Sensitivity of BK Channels. Biophysical Journal, 2008, 94, 4678-4687.	0.5	26
62	Dynamics of Sonoporation Correlated with Acoustic Cavitation Activities. Biophysical Journal, 2008, 94, L51-L53.	0.5	61
63	The size of sonoporation pores on the cell membrane. , 2008, , .		0
64	Mg <sup>2+</sup> mediates interaction between the voltage sensor and cytosolic domain to activate BK channels. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18270-18275.	7.1	69
65	Tuning Magnesium Sensitivity of BK Channels by Mutations. Biophysical Journal, 2006, 91, 2892-2900.	0.5	20
66	Effects of Extracellular Calcium on Cell Membrane Resealing during Sonoporation. AIP Conference Proceedings, 2006, , .	0.4	0
67	Effects of Multiple Metal Binding Sites on Calcium and Magnesium-dependent Activation of BK Channels. Journal of General Physiology, 2006, 127, 35-50.	1.9	20
68	Study of sonoporation dynamics affected by ultrasound duty cycle. Ultrasound in Medicine and Biology, 2005, 31, 849-856.	1.5	78
69	Calcium-sensitive potassium channelopathy in human epilepsy and paroxysmal movement disorder. Nature Genetics, 2005, 37, 733-738.	21.4	513
70	The NH2 Terminus of RCK1 Domain Regulates Ca2+-dependent BKCa Channel Gating. Journal of General Physiology, 2005, 126, 227-241.	1.9	34
71	Assembly of a Ca2+-dependent BK channel signaling complex by binding to β2 adrenergic receptor. EMBO Journal, 2004, 23, 2196-2205.	7.8	99
72	Ultrasound-induced cell membrane porosity. Ultrasound in Medicine and Biology, 2004, 30, 519-526.	1.5	306

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73	Identification of a KCNE2 Gain-of-Function Mutation in Patients with Familial Atrial Fibrillation. American Journal of Human Genetics, 2004, 75, 899-905.	6.2	375
74	Participation of the S4 voltage sensor in the Mg2+-dependent activation of large conductance (BK) K+ channels. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10488-10493.	7.1	55
75	Mechanism of magnesium activation of calcium-activated potassium channels. Nature, 2002, 418, 876-880.	27.8	204
76	Intracellular Mg2+ Enhances the Function of Bk-Type Ca2+-Activated K+ Channels. Journal of General Physiology, 2001, 118, 589-606.	1.9	114
77	Allosteric Linkage between Voltage and Ca2+-Dependent Activation of BK-Type mslo1 K+Channelsâ€. Biochemistry, 2000, 39, 15612-15619.	2.5	125
78	Allosteric Voltage Gating of Potassium Channels I. Journal of General Physiology, 1999, 114, 277-304.	1.9	239