

Luis G Cuello

List of Publications by Year in descending order

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35
papers

3,442
citations

331538

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360920

35
g-index

37
all docs

37
docs citations

37
times ranked

2111
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Rearrangements Underlying K ⁺ -Channel Activation Gating. <i>Science</i> , 1999, 285, 73-78.	6.0	545
2	Structural mechanism of C-type inactivation in K ⁺ channels. <i>Nature</i> , 2010, 466, 203-208.	13.7	437
3	Molecular determinants of gating at the potassium-channel selectivity filter. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 311-318.	3.6	399
4	Three-dimensional architecture and gating mechanism of a K ⁺ channel studied by EPR spectroscopy. <i>Nature Structural Biology</i> , 1998, 5, 459-469.	9.7	282
5	Structural basis for the coupling between activation and inactivation gates in K ⁺ channels. <i>Nature</i> , 2010, 466, 272-275.	13.7	267
6	Molecular Architecture of Full-Length KcsA. <i>Journal of General Physiology</i> , 2001, 117, 165-180.	0.9	235
7	pH-Dependent Gating in the <i>Streptomyces lividans</i> K ⁺ Channel. <i>Biochemistry</i> , 1998, 37, 3229-3236.	1.2	233
8	Molecular Architecture of the KvAP Voltage-Dependent K ⁺ Channel in a Lipid Bilayer. <i>Science</i> , 2004, 306, 491-495.	6.0	219
9	Detection of the Opening of the Bundle Crossing in KcsA with Fluorescence Lifetime Spectroscopy Reveals the Existence of Two Gates for Ion Conduction. <i>Journal of General Physiology</i> , 2006, 128, 569-581.	0.9	97
10	The gating cycle of a K ⁺ channel at atomic resolution. <i>ELife</i> , 2017, 6, .	2.8	85
11	Mechanism of activation gating in the full-length KcsA K ⁺ channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11896-11899.	3.3	65
12	Rapid constriction of the selectivity filter underlies C-type inactivation in the KcsA potassium channel. <i>Journal of General Physiology</i> , 2018, 150, 1408-1420.	0.9	64
13	Thermodynamic coupling between activation and inactivation gating in potassium channels revealed by free energy molecular dynamics simulations. <i>Journal of General Physiology</i> , 2011, 138, 571-580.	0.9	49
14	A molecular mechanism for proton-dependent gating in KcsA. <i>FEBS Letters</i> , 2010, 584, 1126-1132.	1.3	48
15	Thioredoxin reverses age-related hypertension by chronically improving vascular redox and restoring eNOS function. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	45
16	Inverted allosteric coupling between activation and inactivation gates in K ⁺ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5426-5431.	3.3	44
17	Hysteresis of KcsA potassium channel's activation-deactivation gating is caused by structural changes at the channel's selectivity filter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3234-3239.	3.3	43
18	A lipid site shapes the agonist response of a pentameric ligand-gated ion channel. <i>Nature Chemical Biology</i> , 2019, 15, 1156-1164.	3.9	43

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19	Activation of the mechanosensitive ion channel MscL by mechanical stimulation of supported Droplet-Hydrogel bilayers. <i>Scientific Reports</i> , 2017, 7, 45180.	1.6	35
20	Structural Dynamics of the Magnesium-Bound Conformation of CorA in a Lipid Bilayer. <i>Structure</i> , 2010, 18, 868-878.	1.6	30
21	Functional analysis and regulation of purified connexin hemichannels. <i>Frontiers in Physiology</i> , 2014, 5, 71.	1.3	29
22	Design and characterization of a constitutively open KcsA. <i>FEBS Letters</i> , 2010, 584, 1133-1138.	1.3	25
23	Electrostatic Interaction of a K ⁺ Channel RCK Domain with Charged Membrane Surfaces. <i>Biochemistry</i> , 2005, 44, 62-71.	1.2	22
24	Voltage-dependent BK and Hv1 channels expressed in non-excitable tissues: New therapeutics opportunities as targets in human diseases. <i>Pharmacological Research</i> , 2015, 101, 56-64.	3.1	17
25	Structure, function, and ion-binding properties of a K ⁺ channel stabilized in the 2,4-ion ⁺ bound configuration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16829-16834.	3.3	17
26	An improved method for the cost-effective expression and purification of large quantities of KcsA. <i>Protein Expression and Purification</i> , 2016, 127, 53-60.	0.6	13
27	Functional hemichannels formed by human connexin 26 expressed in bacteria. <i>Bioscience Reports</i> , 2015, 35, .	1.1	11
28	Inhibition by Commercial Aminoglycosides of Human Connexin Hemichannels Expressed in Bacteria. <i>Molecules</i> , 2017, 22, 2063.	1.7	11
29	An Escherichia coli-Based Assay to Assess the Function of Recombinant Human Hemichannels. <i>SLAS Discovery</i> , 2017, 22, 135-143.	1.4	8
30	The Selectivity Filter Is Involved in the U-Type Inactivation Process of Kv2.1 and Kv3.1 Channels. <i>Biophysical Journal</i> , 2020, 118, 2612-2620.	0.2	8
31	A cost-effective protocol for the over-expression and purification of fully-functional and more stable Erwinia chrysanthemi ligand-gated ion channel. <i>Protein Expression and Purification</i> , 2017, 133, 177-186.	0.6	3
32	A Simple Assay to Evaluate the Function of Human Connexin Hemichannels Expressed in Escherichia coli that Can Be Used for Drug Discovery and Mutant Analysis. <i>Current Protocols in Pharmacology</i> , 2019, 87, e68.	4.0	3
33	TOK channels use the two gates in classical K ⁺ channels to achieve outward rectification. <i>FASEB Journal</i> , 2020, 34, 8902-8919.	0.2	3
34	CW-EPR Spectroscopy and Site-Directed Spin Labeling to Study the Structural Dynamics of Ion Channels. <i>Methods in Molecular Biology</i> , 2018, 1684, 279-288.	0.4	3
35	A Cell-Based Assay to Assess Hemichannel Function. <i>Yale Journal of Biology and Medicine</i> , 2017, 90, 87-95.	0.2	3