

# Luis G Cuello

## List of Publications by Citations

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35  
papers

3,006  
citations

21  
h-index

37  
g-index

37  
ext. papers

3,293  
ext. citations

9.8  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
35	Structural rearrangements underlying K <sup>+</sup> -channel activation gating. <i>Science</i> , <b>1999</b> , 285, 73-8	33.3	511
34	Structural mechanism of C-type inactivation in K(+) channels. <i>Nature</i> , <b>2010</b> , 466, 203-8	50.4	370
33	Molecular determinants of gating at the potassium-channel selectivity filter. <i>Nature Structural and Molecular Biology</i> , <b>2006</b> , 13, 311-8	17.6	355
32	Three-dimensional architecture and gating mechanism of a K <sup>+</sup> channel studied by EPR spectroscopy. <i>Nature Structural Biology</i> , <b>1998</b> , 5, 459-69		263
31	Structural basis for the coupling between activation and inactivation gates in K(+) channels. <i>Nature</i> , <b>2010</b> , 466, 272-5	50.4	227
30	pH-dependent gating in the <i>Streptomyces lividans</i> K <sup>+</sup> channel. <i>Biochemistry</i> , <b>1998</b> , 37, 3229-36	3.2	225
29	Molecular architecture of full-length KcsA: role of cytoplasmic domains in ion permeation and activation gating. <i>Journal of General Physiology</i> , <b>2001</b> , 117, 165-80	3.4	219
28	Molecular architecture of the KvAP voltage-dependent K <sup>+</sup> channel in a lipid bilayer. <i>Science</i> , <b>2004</b> , 306, 491-5	33.3	202
27	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> , <b>2006</b> , 128, 569-81	3.4	87
26	Mechanism of activation gating in the full-length KcsA K <sup>+</sup> channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 11896-9	11.5	60
25	The gating cycle of a K channel at atomic resolution. <i>ELife</i> , <b>2017</b> , 6,	8.9	57
24	Thermodynamic coupling between activation and inactivation gating in potassium channels revealed by free energy molecular dynamics simulations. <i>Journal of General Physiology</i> , <b>2011</b> , 138, 571-80	3.4	47
23	A molecular mechanism for proton-dependent gating in KcsA. <i>FEBS Letters</i> , <b>2010</b> , 584, 1126-32	3.8	42
22	Rapid constriction of the selectivity filter underlies C-type inactivation in the KcsA potassium channel. <i>Journal of General Physiology</i> , <b>2018</b> , 150, 1408-1420	3.4	40
21	Thioredoxin reverses age-related hypertension by chronically improving vascular redox and restoring eNOS function. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	36
20	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> , <b>2018</b> , 115, 5426-5431	11.5	31
19	Hysteresis of KcsA potassium channel activation- deactivation gating is caused by structural changes at the channel selectivity filter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 3234-3239	11.5	27

18	Structural dynamics of the magnesium-bound conformation of CorA in a lipid bilayer. <i>Structure</i> , <b>2010</b> , 18, 868-78	5.2	26
17	A lipid site shapes the agonist response of a pentameric ligand-gated ion channel. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 1156-1164	11.7	24
16	Functional analysis and regulation of purified connexin hemichannels. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 71	4.6	22
15	Electrostatic interaction of a K <sup>+</sup> channel RCK domain with charged membrane surfaces. <i>Biochemistry</i> , <b>2005</b> , 44, 62-71	3.2	21
14	Activation of the mechanosensitive ion channel MscL by mechanical stimulation of supported Droplet-Hydrogel bilayers. <i>Scientific Reports</i> , <b>2017</b> , 7, 45180	4.9	20
13	Design and characterization of a constitutively open KcsA. <i>FEBS Letters</i> , <b>2010</b> , 584, 1133-8	3.8	20
12	Functional hemichannels formed by human connexin 26 expressed in bacteria. <i>Bioscience Reports</i> , <b>2015</b> , 35,	4.1	11
11	Voltage-dependent BK and Hv1 channels expressed in non-excitabile tissues: New therapeutics opportunities as targets in human diseases. <i>Pharmacological Research</i> , <b>2015</b> , 101, 56-64	10.2	11
10	An improved method for the cost-effective expression and purification of large quantities of KcsA. <i>Protein Expression and Purification</i> , <b>2016</b> , 127, 53-60	2	11
9	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> , <b>2019</b> , 116, 16829-16834	11.5	10
8	Inhibition by Commercial Aminoglycosides of Human Connexin Hemichannels Expressed in Bacteria. <i>Molecules</i> , <b>2017</b> , 22,	4.8	9
7	An Escherichia coli-Based Assay to Assess the Function of Recombinant Human Hemichannels. <i>SLAS Discovery</i> , <b>2017</b> , 22, 135-143	3.4	8
6	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> , <b>2019</b> , 87, e68	4.1	3
5	A Cell-Based Assay to Assess Hemichannel Function. <i>Yale Journal of Biology and Medicine</i> , <b>2017</b> , 90, 87-95.	4	3
4	CW-EPR Spectroscopy and Site-Directed Spin Labeling to Study the Structural Dynamics of Ion Channels. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1684, 279-288	1.4	3
3	A cost-effective protocol for the over-expression and purification of fully-functional and more stable <i>Erwinia chrysanthemi</i> ligand-gated ion channel. <i>Protein Expression and Purification</i> , <b>2017</b> , 133, 177-186	2	2
2	The Selectivity Filter Is Involved in the U-Type Inactivation Process of Kv2.1 and Kv3.1 Channels. <i>Biophysical Journal</i> , <b>2020</b> , 118, 2612-2620	2.9	2
1	TOK channels use the two gates in classical K channels to achieve outward rectification. <i>FASEB Journal</i> , <b>2020</b> , 34, 8902-8919	0.9	1

