

Thomas Baukrowitz

List of Publications by Citations

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Version: 2024-04-25

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19
papers

1,018
citations

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h-index

24
g-index

24
ext. papers

1,210
ext. citations

10.9
avg, IF

3.64
L-index

#	Paper	IF	Citations
19	Functional conversion between A-type and delayed rectifier K ⁺ channels by membrane lipids. <i>Science</i> , 2004 , 304, 265-70	33.3	284
18	The pore structure and gating mechanism of K2P channels. <i>EMBO Journal</i> , 2011 , 30, 3607-19	13	129
17	A Non-canonical Voltage-Sensing Mechanism Controls Gating in K2P K(+) Channels. <i>Cell</i> , 2016 , 164, 937-46	36.2	114
16	A specific two-pore domain potassium channel blocker defines the structure of the TASK-1 open pore. <i>Journal of Biological Chemistry</i> , 2011 , 286, 13977-84	5.4	62
15	A pharmacological master key mechanism that unlocks the selectivity filter gate in K channels. <i>Science</i> , 2019 , 363, 875-880	33.3	61
14	Long-chain acyl-CoA esters and phosphatidylinositol phosphates modulate ATP inhibition of KATP channels by the same mechanism. <i>Journal of Physiology</i> , 2003 , 552, 357-67	3.9	56
13	Polymodal activation of the TREK-2 K2P channel produces structurally distinct open states. <i>Journal of General Physiology</i> , 2016 , 147, 497-505	3.4	46
12	How highly charged anionic lipids bind and regulate ion channels. <i>Journal of General Physiology</i> , 2008 , 131, 431-8	3.4	46
11	Sodium permeable and "hypersensitive" TREK-1 channels cause ventricular tachycardia. <i>EMBO Molecular Medicine</i> , 2017 , 9, 403-414	12	44
10	Bilayer-Mediated Structural Transitions Control Mechanosensitivity of the TREK-2 K2P Channel. <i>Structure</i> , 2017 , 25, 708-718.e2	5.2	44
9	State-independent intracellular access of quaternary ammonium blockers to the pore of TREK-1. <i>Channels</i> , 2012 , 6, 473-8	3	34
8	Long chain CoA esters as competitive antagonists of phosphatidylinositol 4,5-bisphosphate activation in Kir channels. <i>Journal of Biological Chemistry</i> , 2005 , 280, 30760-7	5.4	31
7	Cytoplasmic accumulation of long-chain coenzyme A esters activates KATP and inhibits Kir2.1 channels. <i>Journal of Physiology</i> , 2006 , 575, 433-42	3.9	22
6	The molecular basis for an allosteric inhibition of K-flux gating in K channels. <i>ELife</i> , 2019 , 8,	8.9	16
5	The VAMP-associated protein VAPB is required for cardiac and neuronal pacemaker channel function. <i>FASEB Journal</i> , 2018 , 32, 6159-6173	0.9	10
4	Selectivity filter instability dominates the low intrinsic activity of the TWIK-1 K2P K channel. <i>Journal of Biological Chemistry</i> , 2020 , 295, 610-618	5.4	7
3	An otopetrin family proton channel promotes cellular acid efflux critical for biomineralization in a marine calcifier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5

2	Norfluoxetine inhibits TREK-2 K2P channels by multiple mechanisms including state-independent effects on the selectivity filter gate. <i>Journal of General Physiology</i> , 2021 , 153,	3-4	4
1	Multiple Mechanisms Underlie State-Independent Inhibitory Effects of Norfluoxetine on TREK-2 K2P Channels		2