

Thomas Baukrowitz

List of Publications by Year in descending order

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19
papers

1,316
citations

566801

15
h-index

794141

19
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24
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docs citations

24
times ranked

1405
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Conversion Between A-Type and Delayed Rectifier K ⁺ Channels by Membrane Lipids. <i>Science</i> , 2004, 304, 265-270.	6.0	301
2	A Non-canonical Voltage-Sensing Mechanism Controls Gating in K ₂ P K ⁺ Channels. <i>Cell</i> , 2016, 164, 937-949.	13.5	169
3	The pore structure and gating mechanism of K ₂ P channels. <i>EMBO Journal</i> , 2011, 30, 3607-3619.	3.5	162
4	A pharmacological master key mechanism that unlocks the selectivity filter gate in K ⁺ channels. <i>Science</i> , 2019, 363, 875-880.	6.0	91
5	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, 13977-13984.	1.6	69
6	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, 357-367.	1.3	69
7	Polymodal activation of the TREK-2 K ₂ P channel produces structurally distinct open states. <i>Journal of General Physiology</i> , 2016, 147, 497-505.	0.9	65
8	Sodium permeable and ω -hypersensitive TREK channels cause ventricular tachycardia. <i>EMBO Molecular Medicine</i> , 2017, 9, 403-414.	3.3	65
9	Bilayer-Mediated Structural Transitions Control Mechanosensitivity of the TREK-2 K ₂ P Channel. <i>Structure</i> , 2017, 25, 708-718.e2.	1.6	64
10	How Highly Charged Anionic Lipids Bind and Regulate Ion Channels. <i>Journal of General Physiology</i> , 2008, 131, 431-438.	0.9	51
11	State-independent intracellular access of quaternary ammonium blockers to the pore of TREK-1. <i>Channels</i> , 2012, 6, 473-478.	1.5	37
12	Long Chain CoA Esters as Competitive Antagonists of Phosphatidylinositol 4,5-Bisphosphate Activation in Kir Channels. <i>Journal of Biological Chemistry</i> , 2005, 280, 30760-30767.	1.6	36
13	Cytoplasmic accumulation of long-chain coenzyme A esters activates KATP and inhibits Kir2.1 channels. <i>Journal of Physiology</i> , 2006, 575, 433-442.	1.3	28
14	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, .	3.3	22
15	The molecular basis for an allosteric inhibition of K ⁺ -flux gating in K ₂ P channels. <i>ELife</i> , 2019, 8, .	2.8	20
16	The VAMP-associated protein VAPB is required for cardiac and neuronal pacemaker channel function. <i>FASEB Journal</i> , 2018, 32, 6159-6173.	0.2	19
17	Norfluoxetine inhibits TREK-2 K ₂ P channels by multiple mechanisms including state-independent effects on the selectivity filter gate. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	17
18	Selectivity filter instability dominates the low intrinsic activity of the TWIK-1 K ₂ P K ⁺ channel. <i>Journal of Biological Chemistry</i> , 2020, 295, 610-618.	1.6	16

#	ARTICLE	IF	CITATIONS
19	The versatile regulation of K2P channels by polyanionic lipids of the phosphoinositide and fatty acid metabolism. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	10