Thomas Baukrowitz

List of Publications by Year in Descending Order

19 papers	1,018 citations	14 h-index	24 g-index
24 ext. papers	1,210 ext. citations	10.9 avg, IF	3.64 L-index

#	Paper	IF	Citations
19	Norfluoxetine inhibits TREK-2 K2P channels by multiple mechanisms including state-independent effects on the selectivity filter gate. *Journal of General Physiology*, **2021**, 153,	3.4	4
18	An otopetrin family proton channel promotes cellular acid efflux critical for biomineralization in a marine calcifier. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
17	Selectivity filter instability dominates the low intrinsic activity of the TWIK-1 K2P K channel. *Journal of Biological Chemistry*, **2020**, 295, 610-618	5.4	7
16	The molecular basis for an allosteric inhibition of K-flux gating in K channels. *ELife*, **2019**, 8,	8.9	16
15	A pharmacological master key mechanism that unlocks the selectivity filter gate in K channels. *Science*, **2019**, 363, 875-880	33.3	61
14	The VAMP-associated protein VAPB is required for cardiac and neuronal pacemaker channel function. *FASEB Journal*, **2018**, 32, 6159-6173	0.9	10
13	Sodium permeable and "hypersensitive" TREK-1 channels cause ventricular tachycardia. *EMBO Molecular Medicine*, **2017**, 9, 403-414	12	44
12	Bilayer-Mediated Structural Transitions Control Mechanosensitivity of the TREK-2 K2P Channel. *Structure*, **2017**, 25, 708-718.e2	5.2	44
11	Polymodal activation of the TREK-2 K2P channel produces structurally distinct open states. *Journal of General Physiology*, **2016**, 147, 497-505	3.4	46
10	A Non-canonical Voltage-Sensing Mechanism Controls Gating in K2P K(+) Channels. *Cell*, **2016**, 164, 937-49	36.2	114
9	State-independent intracellular access of quaternary ammonium blockers to the pore of TREK-1. *Channels*, **2012**, 6, 473-8	3	34
8	The pore structure and gating mechanism of K2P channels. *EMBO Journal*, **2011**, 30, 3607-19	13	129
7	A specific two-pore domain potassium channel blocker defines the structure of the TASK-1 open pore. *Journal of Biological Chemistry*, **2011**, 286, 13977-84	5.4	62
6	How highly charged anionic lipids bind and regulate ion channels. *Journal of General Physiology*, **2008**, 131, 431-8	3.4	46
5	Cytoplasmic accumulation of long-chain coenzyme A esters activates KATP and inhibits Kir2.1 channels. *Journal of Physiology*, **2006**, 575, 433-42	3.9	22
4	Long chain CoA esters as competitive antagonists of phosphatidylinositol 4,5-bisphosphate activation in Kir channels. *Journal of Biological Chemistry*, **2005**, 280, 30760-7	5.4	31
3	Functional conversion between A-type and delayed rectifier K+ channels by membrane lipids. *Science*, **2004**, 304, 265-70	33.3	284

2	Long-chain acyl-CoA esters and phosphatidylinositol phosphates modulate ATP inhibition of KATP channels by the same mechanism. *Journal of Physiology*, **2003**, 552, 357-67	3.9	56
1	Multiple Mechanisms Underlie State-Independent Inhibitory Effects of Norfluoxetine on TREK-2 K2P Channels		2