Jana Kusch

List of Publications by Year
in descending order

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39	721	687363 13	752698 20
papers	citations	h-index	g-index

43	43	43	736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relating ligand binding to activation gating in CNGA2 channels. Nature, 2007, 446, 440-443.	27.8	130
2	Interdependence of Receptor Activation and Ligand Binding in HCN2 Pacemaker Channels. Neuron, 2010, 67, 75-85.	8.1	100
3	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	2.8	99
4	How subunits cooperate in cAMP-induced activation of homotetrameric HCN2 channels. Nature Chemical Biology, 2012, 8, 162-169.	8.0	70
5	Family of prokaryote cyclic nucleotide-modulated ion channels. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7855-7860.	7.1	54
6	Activation of olfactory-type cyclic nucleotide-gated channels is highly cooperative. Journal of Physiology, 2005, 569, 91-102.	2.9	39
7	Structure of the SthK Carboxy-Terminal Region Reveals a Gating Mechanism for Cyclic Nucleotide-Modulated Ion Channels. PLoS ONE, 2015, 10, e0116369.	2.5	31
8	Patch-Clamp Fluorometry: Electrophysiology meets Fluorescence. Biophysical Journal, 2014, 106, 1250-1257.	0.5	27
9	Differential Regulation by Cyclic Nucleotides of the CNGA4 and CNGB1b Subunits in Olfactory Cyclic Nucleotideâ€“Gated Channels. Science Signaling, 2012, 5, ra48.	3.6	26
10	The Bile Acid-Sensitive Ion Channel (BASIC) Is Activated by Alterations of Its Membrane Environment. PLoS ONE, 2014, 9, e111549.	2.5	19
11	Deciphering the function of the CNGB1b subunit in olfactory CNG channels. Scientific Reports, 2016, 6, 29378.	3.3	19
12	Conformational Flip of Nonactivated HCN2 Channel Subunits Evoked by Cyclic Nucleotides. Biophysical Journal, 2015, 109, 2268-2276.	0.5	18
13	All four subunits of HCN2 channels contribute to the activation gating in an additive but intricate manner. Journal of General Physiology, 2018, 150, 1261-1271.	1.9	15
14	Molecular Regions Controlling the Activity of Cng Channels. Journal of General Physiology, 2001, 118, 183-192.	1.9	13
15	Gating of Cyclic Nucleotide-Gated (CNGA1) Channels by cGMP Jumps and Depolarizing Voltage Steps. Biophysical Journal, 2006, 90, 3146-3154.	0.5	12
16	Probability Fluxes and Transition Paths in a Markovian Model Describing Complex Subunit Cooperativity in HCN2 Channels. PLoS Computational Biology, 2012, 8, e1002721.	3.2	12
17	Effects of permeating ions and cGMP on gating and conductance of rod-type cyclic nucleotide-gated (CNGA1) channels. Journal of Physiology, 2004, 560, 605-616.	2.9	11
18	Role of the S4-S5 Linker in CNG Channel Activation. Biophysical Journal, 2010, 99, 2488-2496.	0.5	10

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19	Allosteric signaling in C-linker and cyclic nucleotide-binding domain of HCN2 channels. Biophysical Journal, 2021, 120, 950-963.	0.5	8
20	Thermodynamics of Activation Gating in Olfactory-Type Cyclic Nucleotide-Gated (CNGA2) Channels. Biophysical Journal, 2008, 95, 2750-2758.	0.5	6
21	N6-modified cAMP derivatives that activate protein kinase A also act as full agonists of murine HCN2 channels. Journal of Biological Chemistry, 2019, 294, 17978-17987.	3.4	1
22	Functional and structural characterization of interactions between opposite subunits in HCN pacemaker channels. Communications Biology, 2022, 5, 430.	4.4	1
23	Adding new dimensions to fluorescence microscopy. Proceedings of SPIE, 2009, , .	0.8	0
24	Voltage Gated Trapping of fcAMP in HCN2 Channels. Biophysical Journal, 2010, 98, 708a.	0.5	0
25	Interaction Energies between Intracellular Regions in CNG Channel Activation. Biophysical Journal, 2010, 98, 706a-707a.	0.5	0
26	Ligand Binding and Activation Gating in CNGA2A4B1b Channels. Biophysical Journal, 2010, 98, 706a.	0.5	0
27	Analysis and Minimization of Ligand Concentration Errors at the Internal Face of Excised Patches. Biophysical Journal, 2011, 100, 104a.	0.5	0
28	How to Define Cooperativity for the Ligand-Induced Gating of HCN2 Channels?. Biophysical Journal, 2012, 102, 129a.	0.5	0
29	Functional Role of the Modulatory Subunits in the Olfactory CNG Channels. Biophysical Journal, 2012, 102, 130a-131a.	0.5	0
30	Functional Dimeric Organization of the Tetrameric HCN2 Pacemaker Channel. Biophysical Journal, 2012, 102, 131a.	0.5	0
31	Probability Fluxes and Transition Paths in a Markovian Model Describing Complex Subunit Cooperativity in HCN2 Channels. Biophysical Journal, 2013, 104, 280a.	0.5	0
32	Voltage- and Camp-Dependent Gating in Heterotetrameric HCN2/4-Pacemaker Channels. Biophysical Journal, 2013, 104, 279a.	0.5	0
33	A Family of HCN Channel Homologs in Bacteria. Biophysical Journal, 2014, 106, 760a.	0.5	0
34	Stepchild Nicotine: Effect of the Name-Giving Agonist on Muscle-Type Nicotinic Acetylcholine Receptor. Biophysical Journal, 2015, 108, 430a.	0.5	0
35	Elucidating the Link Between Structure and Function of Ion Channels and Transporters with Voltage-Clamp and Patch-Clamp Fluorometry. Neuromethods, 2016, , 67-95.	0.3	0
36	Role of Individual Camp Binding Sites on Relieving the Autoinhibition in HCN Channels. Biophysical Journal, 2017, 112, 422a.	0.5	0

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37	A Fluorescent Agonist of the Muscle Nicotinic Acetylcholine Receptor. Biophysical Journal, 2017, 112, 552a-553a.	0.5	0
38	Uncoupling the cAMP Binding Domain from the Channel Gate in HCN2 Channels. Biophysical Journal, 2019, 116, 108a.	0.5	0
39	Opposing Subunits Interact to Stabilize the Closed State in HCN2 Channels. Biophysical Journal, 2019, 116, 108a.	0.5	0