

William A Sather

List of Publications by Year in descending order

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26
papers

2,161
citations

430874

18
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642732

23
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26
all docs

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docs citations

26
times ranked

1780
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular determinants of Ca ²⁺ selectivity and ion permeation in L-type Ca ²⁺ channels. <i>Nature</i> , 1993, 366, 158-161.	27.8	596
2	AKAP79/150 Anchoring of Calcineurin Controls Neuronal L-Type Ca ²⁺ Channel Activity and Nuclear Signaling. <i>Neuron</i> , 2007, 55, 261-275.	8.1	303
3	Ca ²⁺ channel selectivity at a single locus for high-affinity Ca ²⁺ interactions. <i>Neuron</i> , 1995, 15, 1121-1132.	8.1	281
4	Permeation and Selectivity in Calcium Channels. <i>Annual Review of Physiology</i> , 2003, 65, 133-159.	13.1	239
5	AKAP-Anchored PKA Maintains Neuronal L-type Calcium Channel Activity and NFAT Transcriptional Signaling. <i>Cell Reports</i> , 2014, 7, 1577-1588.	6.4	128
6	Structural basis of ion channel permeation and selectivity. <i>Current Opinion in Neurobiology</i> , 1994, 4, 313-323.	4.2	76
7	STIM1 Ca ²⁺ Sensor Control of L-type Ca ²⁺ -Channel-Dependent Dendritic Spine Structural Plasticity and Nuclear Signaling. <i>Cell Reports</i> , 2017, 19, 321-334.	6.4	61
8	Synapse-to-Nucleus Communication through NFAT Is Mediated by L-type Ca ²⁺ Channel Ca ²⁺ Spike Propagation to the Soma. <i>Cell Reports</i> , 2019, 26, 3537-3550.e4.	6.4	57
9	Ca ²⁺ /Calcineurin-Dependent Inactivation of Neuronal L-Type Ca ²⁺ Channels Requires Priming by AKAP-Anchored Protein Kinase A. <i>Cell Reports</i> , 2014, 7, 1410-1416.	6.4	55
10	Localized Calcineurin Confers Ca ²⁺ -Dependent Inactivation on Neuronal L-Type Ca ²⁺ Channels. <i>Journal of Neuroscience</i> , 2012, 32, 15328-15337.	3.6	52
11	The EEEE Locus Is the Sole High-Affinity Ca ²⁺ Binding Structure in the Pore of a Voltage-Gated Ca ²⁺ Channel. <i>Journal of General Physiology</i> , 2000, 116, 349-362.	1.9	47
12	Stac Proteins Suppress Ca ²⁺ -Dependent Inactivation of Neuronal L-type Ca ²⁺ Channels. <i>Journal of Neuroscience</i> , 2018, 38, 9215-9227.	3.6	39
13	Side Chain Orientation in the Selectivity Filter of a Voltage-gated Ca ²⁺ Channel. <i>Journal of Biological Chemistry</i> , 2000, 275, 31778-31785.	3.4	38
14	AKAP79/150 recruits the transcription factor NFAT to regulate signaling to the nucleus by neuronal L-type Ca ²⁺ channels. <i>Molecular Biology of the Cell</i> , 2019, 30, 1743-1756.	2.1	30
15	Ion Interactions in the High-Affinity Binding Locus of a Voltage-Gated Ca ²⁺ Channel. <i>Journal of General Physiology</i> , 2000, 116, 569-586.	1.9	27
16	Nonglutamate Pore Residues in Ion Selection and Conduction in Voltage-Gated Ca ²⁺ Channels. <i>Biophysical Journal</i> , 1999, 77, 2575-2589.	0.5	24
17	A tctex1-Ca ²⁺ channel complex for selective surface expression of Ca ²⁺ channels in neurons. <i>Nature Neuroscience</i> , 2005, 8, 435-442.	14.8	24
18	Preferred antagonist binding state of the N-methyl-D-aspartate receptor: synthesis, pharmacology, and computer modeling of (phosphonomethyl)phenylalanine derivatives. <i>Journal of Medicinal Chemistry</i> , 1992, 35, 2551-2562.	6.4	19

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19	Permeant ion binding affinity in subconductance states of an L-type Ca ²⁺ channel expressed in <i>Xenopus laevis</i> oocytes. <i>Journal of Physiology</i> , 2000, 524, 19-36.	2.9	17
20	Synaptic crosstalk conferred by a zone of differentially regulated Ca ²⁺ signaling in the dendritic shaft adjoining a potentiated spine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13611-13620.	7.1	16
21	Control of Ion Conduction in L-type Ca ²⁺ Channels by the Concerted Action of S5 ⁶ Regions. <i>Biophysical Journal</i> , 2003, 84, 1709-1719.	0.5	13
22	Regulation of voltage-gated calcium channels by the ER calcium sensor STIM1. <i>Current Opinion in Neurobiology</i> , 2019, 57, 186-191.	4.2	8
23	A novel substituted aminoquinoline selectively targets voltage-sensitive sodium channel isoforms and NMDA receptor subtypes and alleviates chronic inflammatory and neuropathic pain. <i>European Journal of Pharmacology</i> , 2016, 784, 1-14.	3.5	4
24	Selective Permeability of Voltage-Gated Calcium Channels. , 2005, , 205-218.		4
25	Structure and Mechanism of Voltage-Gated Ion Channels. , 2001, , 455-477.		3
26	Structure and Mechanism of Voltage-Gated Ion Channels. , 2012, , 383-408.		0