

Ian F Smith

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,512
citations

430874

18
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

5729
citing authors

#	ARTICLE	IF	CITATIONS
1	Essential Regulation of Cell Bioenergetics by Constitutive InsP3 Receptor Ca ²⁺ Transfer to Mitochondria. <i>Cell</i> , 2010, 142, 270-283.	28.9	888
2	Enhanced Ryanodine Receptor Recruitment Contributes to Ca ²⁺ Disruptions in Young, Adult, and Aged Alzheimer's Disease Mice. <i>Journal of Neuroscience</i> , 2006, 26, 5180-5189.	3.6	305
3	Tunneling Nanotubes and Gap Junctions—Their Role in Long-Range Intercellular Communication during Development, Health, and Disease Conditions. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 333.	2.9	181
4	Imaging the quantal substructure of single IP ₃ R channel activity during Ca ²⁺ puffs in intact mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6404-6409.	7.1	172
5	Gene expression and functional deficits underlie TREM2-knockout microglia responses in human models of Alzheimer's disease. <i>Nature Communications</i> , 2020, 11, 5370.	12.8	160
6	A comparison of fluorescent Ca ²⁺ indicators for imaging local Ca ²⁺ signals in cultured cells. <i>Cell Calcium</i> , 2015, 58, 638-648.	2.4	159
7	Localization of puff sites adjacent to the plasma membrane: Functional and spatial characterization of Ca ²⁺ signaling in SH-SY5Y cells utilizing membrane-permeant caged IP ₃ . <i>Cell Calcium</i> , 2009, 45, 65-76.	2.4	104
8	Ca ²⁺ Puffs Originate from Preestablished Stable Clusters of Inositol Trisphosphate Receptors. <i>Science Signaling</i> , 2009, 2, ra77.	3.6	75
9	Active Generation and Propagation of Ca ²⁺ Signals within Tunneling Membrane Nanotubes. <i>Biophysical Journal</i> , 2011, 100, L37-L39.	0.5	73
10	An algorithm for automated detection, localization and measurement of local calcium signals from camera-based imaging. <i>Cell Calcium</i> , 2014, 56, 147-156.	2.4	70
11	Communication of Ca ²⁺ signals via tunneling membrane nanotubes is mediated by transmission of inositol trisphosphate through gap junctions. <i>Cell Calcium</i> , 2016, 60, 266-272.	2.4	48
12	Recording single-channel activity of inositol trisphosphate receptors in intact cells with a microscope, not a patch clamp. <i>Journal of General Physiology</i> , 2010, 136, 119-127.	1.9	47
13	Timescales of IP ₃ -Evoked Ca ²⁺ Spikes Emerge from Ca ²⁺ Puffs Only at the Cellular Level. <i>Biophysical Journal</i> , 2011, 101, 2638-2644.	0.5	47
14	Superresolution Localization of Single Functional IP ₃ R Channels Utilizing Ca ²⁺ Flux as a Readout. <i>Biophysical Journal</i> , 2010, 99, 437-446.	0.5	41
15	TREM2 regulates purinergic receptor-mediated calcium signaling and motility in human iPSC-derived microglia. <i>eLife</i> , 2022, 11, .	6.0	31
16	Single-Molecule Tracking of Inositol Trisphosphate Receptors Reveals Different Motilities and Distributions. <i>Biophysical Journal</i> , 2014, 107, 834-845.	0.5	24
17	Comparison of Ca ²⁺ puffs evoked by extracellular agonists and photoreleased IP ₃ . <i>Cell Calcium</i> , 2017, 63, 43-47.	2.4	23
18	Spatial-temporal patterning of Ca ²⁺ signals by the subcellular distribution of IP ₃ and IP ₃ receptors. <i>Seminars in Cell and Developmental Biology</i> , 2019, 94, 3-10.	5.0	23

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19	Lattice light sheet imaging of membrane nanotubes between human breast cancer cells in culture and in brain metastases. <i>Scientific Reports</i> , 2017, 7, 11029.	3.3	16
20	Imaging Local Ca^{2+} Signals in Cultured Mammalian Cells. <i>Journal of Visualized Experiments</i> , 2015, .	0.3	14
21	A Novel Postsynaptic Mechanism for Heterosynaptic Sharing of Short-Term Plasticity. <i>Journal of Neuroscience</i> , 2010, 30, 8797-8806.	3.6	10