

Ian Parker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1789309/publications.pdf>

Version: 2024-02-01

53
papers

3,143
citations

172457

29
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

2637
citing authors

#	ARTICLE	IF	CITATIONS
1	TREM2 regulates purinergic receptor-mediated calcium signaling and motility in human iPSC-derived microglia. <i>ELife</i> , 2022, 11, .	6.0	31
2	Piezo1 channels restrain regulatory T cells but are dispensable for effector CD4 ⁺ T cell responses. <i>Science Advances</i> , 2021, 7, .	10.3	45
3	Termination of Ca ²⁺ puffs during IP3-evoked global Ca ²⁺ signals. <i>Cell Calcium</i> , 2021, 100, 102494.	2.4	4
4	Noise analysis of cytosolic calcium image data. <i>Cell Calcium</i> , 2020, 86, 102152.	2.4	6
5	Regulatory T cells suppress Th17 cell Ca ²⁺ signaling in the spinal cord during murine autoimmune neuroinflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20088-20099.	7.1	34
6	ER-luminal [Ca ²⁺] regulation of InsP3 receptor gating mediated by an ER-luminal peripheral Ca ²⁺ -binding protein. <i>ELife</i> , 2020, 9, .	6.0	19
7	IP3 mediated global Ca ²⁺ signals arise through two temporally and spatially distinct modes of Ca ²⁺ release. <i>ELife</i> , 2020, 9, .	6.0	34
8	Myosin-II mediated traction forces evoke localized Piezo1-dependent Ca ²⁺ flickers. <i>Communications Biology</i> , 2019, 2, 298.	4.4	141
9	Spatial-temporal patterning of Ca ²⁺ signals by the subcellular distribution of IP3 and IP3 receptors. <i>Seminars in Cell and Developmental Biology</i> , 2019, 94, 3-10.	5.0	23
10	Applications of FLIKA, a Python-based image processing and analysis platform, for studying local events of cellular calcium signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 1171-1179.	4.1	15
11	Dynamic Ca ²⁺ imaging with a simplified lattice light-sheet microscope: A sideways view of subcellular Ca ²⁺ puffs. <i>Cell Calcium</i> , 2018, 71, 34-44.	2.4	23
12	CellSpecks: A Software for Automated Detection and Analysis of Calcium Channels in Live Cells. <i>Biophysical Journal</i> , 2018, 115, 2141-2151.	0.5	4
13	All three IP ₃ receptor isoforms generate Ca ²⁺ puffs that display similar characteristics. <i>Science Signaling</i> , 2018, 11, .	3.6	53
14	TraceSpecks: A Software for Automated Idealization of Noisy Patch-Clamp and Imaging Data. <i>Biophysical Journal</i> , 2018, 115, 9-21.	0.5	12
15	Subcellular Ca ²⁺ Puffs Mediated By Different Inositol Trisphosphate Receptor Isoforms. <i>FASEB Journal</i> , 2018, 32, 750.33.	0.5	1
16	Comparison of Ca ²⁺ puffs evoked by extracellular agonists and photoreleased IP3. <i>Cell Calcium</i> , 2017, 63, 43-47.	2.4	23
17	High-throughput screen detects calcium signaling dysfunction in typical sporadic autism spectrum disorder. <i>Scientific Reports</i> , 2017, 7, 40740.	3.3	33
18	T-cell calcium dynamics visualized in a ratiometric tdTomato-GCaMP6f transgenic reporter mouse. <i>ELife</i> , 2017, 6, .	6.0	51

#	ARTICLE	IF	CITATIONS
19	Intermittent Ca ²⁺ signals mediated by Orai1 regulate basal T cell motility. <i>ELife</i> , 2017, 6, .	6.0	31
20	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
21	Imaging Local Ca ²⁺ Signals in Cultured Mammalian Cells. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	14
22	Spinning-Spot Shadowless TIRF Microscopy. <i>PLoS ONE</i> , 2015, 10, e0136055.	2.5	36
23	Picomolar sensitivity to inositol trisphosphate in <i>Xenopus</i> oocytes. <i>Cell Calcium</i> , 2015, 58, 511-517.	2.4	6
24	Imaging regulatory T cell dynamics and CTLA4-mediated suppression of T cell priming. <i>Nature Communications</i> , 2015, 6, 6219.	12.8	107
25	Molecular Biophysics of Orai Store-Operated Ca ²⁺ Channels. <i>Biophysical Journal</i> , 2015, 108, 237-246.	0.5	64
26	Modulation of Elementary Calcium Release Mediates a Transition from Puffs to Waves in an IP3R Cluster Model. <i>PLoS Computational Biology</i> , 2015, 11, e1003965.	3.2	25
27	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
28	Single-Molecule Tracking of Inositol Trisphosphate Receptors Reveals Different Motilities and Distributions. <i>Biophysical Journal</i> , 2014, 107, 834-845.	0.5	24
29	Termination of calcium puffs and coupled closings of inositol trisphosphate receptor channels. <i>Cell Calcium</i> , 2014, 56, 157-168.	2.4	28
30	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
31	Factors Determining the Recruitment of Inositol Trisphosphate Receptor Channels During Calcium Puffs. <i>Biophysical Journal</i> , 2013, 105, 2474-2484.	0.5	20
32	Cytotoxicity of Intracellular A β ₄₂ Amyloid Oligomers Involves Ca ²⁺ Release from the Endoplasmic Reticulum by Stimulated Production of Inositol Trisphosphate. <i>Journal of Neuroscience</i> , 2013, 33, 3824-3833.	3.6	115
33	Orai1 Function Is Essential for T Cell Homing to Lymph Nodes. <i>Journal of Immunology</i> , 2013, 190, 3197-3206.	0.8	24
34	The Probability of Triggering Calcium Puffs Is Linearly Related to the Number of Inositol Trisphosphate Receptors in a Cluster. <i>Biophysical Journal</i> , 2012, 102, 1826-1836.	0.5	44
35	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
36	Superresolution Localization of Single Functional IP3R Channels Utilizing Ca ²⁺ Flux as a Readout. <i>Biophysical Journal</i> , 2010, 99, 437-446.	0.5	41

#	ARTICLE	IF	CITATIONS
37	Tunneling membrane nanotubes generate local calcium signals and may actively propagate calcium signals between cells. <i>FASEB Journal</i> , 2010, 24, lb582.	0.5	0
38	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
39	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
40	Ca ²⁺ Puffs Originate from Preestablished Stable Clusters of Inositol Trisphosphate Receptors. <i>Science Signaling</i> , 2009, 2, ra77.	3.6	75
41	Multi-dimensional resolution of elementary Ca ²⁺ signals by simultaneous multi-focal imaging. <i>Cell Calcium</i> , 2008, 43, 367-374.	2.4	27
42	Mode Switching Is the Major Mechanism of Ligand Regulation of InsP ₃ Receptor Calcium Release Channels. <i>Journal of General Physiology</i> , 2007, 130, 631-645.	1.9	59
43	A Kinetic Model of Single and Clustered IP ₃ Receptors in the Absence of Ca ²⁺ Feedback. <i>Biophysical Journal</i> , 2007, 93, 1151-1162.	0.5	86
44	Optical single-channel recording by imaging Ca ²⁺ flux through individual ion channels: theoretical considerations and limits to resolution. <i>Cell Calcium</i> , 2005, 37, 283-299.	2.4	88
45	“Optical Patch-clamping” <i>Journal of General Physiology</i> , 2005, 126, 179-192.	1.9	104
46	Spatiotemporal patterning of IP ₃ -mediated Ca ²⁺ signals in <i>Xenopus</i> oocytes by Ca ²⁺ -binding proteins. <i>Journal of Physiology</i> , 2004, 556, 447-461.	2.9	81
47	Imaging the Activity and Localization of Single Voltage-Gated Ca ²⁺ Channels by Total Internal Reflection Fluorescence Microscopy. <i>Biophysical Journal</i> , 2004, 86, 3250-3259.	0.5	88
48	Buffer Kinetics Shape the Spatiotemporal Patterns of IP ₃ -Evoked Ca ²⁺ Signals. <i>Journal of Physiology</i> , 2003, 553, 775-788.	2.9	131
49	Radial Localization of Inositol 1,4,5-Trisphosphate-sensitive Ca ²⁺ Release Sites in <i>Xenopus</i> Oocytes Resolved by Axial Confocal Linescan Imaging. <i>Journal of General Physiology</i> , 1999, 113, 199-213.	1.9	42
50	A continuum of InsP ₃ -mediated elementary Ca ²⁺ signalling events in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1998, 509, 67-80.	2.9	227
51	Activation and co-ordination of InsP ₃ -mediated elementary Ca ²⁺ events during global Ca ²⁺ signals in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1998, 509, 81-91.	2.9	154
52	Hemispheric asymmetry of macroscopic and elementary calcium signals mediated by InsP ₃ in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1998, 511, 395-405.	2.9	28
53	Elementary events of InsP ₃ -induced Ca ²⁺ liberation in <i>Xenopus</i> oocytes: hot spots, puffs and blips. <i>Cell Calcium</i> , 1996, 20, 105-121.	2.4	221