

Barbara A Niemeyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5728117/publications.pdf>

Version: 2024-02-01

47
papers

2,567
citations

236612

25
h-index

223531

46
g-index

49
all docs

49
docs citations

49
times ranked

3564
citing authors

#	ARTICLE	IF	CITATIONS
1	Suppression of antitumor T cell immunity by the oncometabolite (R)-2-hydroxyglutarate. <i>Nature Medicine</i> , 2018, 24, 1192-1203.	15.2	359
2	Expression of CaT-like, a Novel Calcium-selective Channel, Correlates with the Malignancy of Prostate Cancer. <i>Journal of Biological Chemistry</i> , 2001, 276, 19461-19468.	1.6	251
3	Differential Redox Regulation of ORAI Ion Channels: A Mechanism to Tune Cellular Calcium Signaling. <i>Science Signaling</i> , 2010, 3, ra24.	1.6	214
4	Calcium microdomains at the immunological synapse: how ORAI channels, mitochondria and calcium pumps generate local calcium signals for efficient T-cell activation. <i>EMBO Journal</i> , 2011, 30, 3895-3912.	3.5	181
5	Apolipoprotein C3 induces inflammation and organ damage by alternative inflammasome activation. <i>Nature Immunology</i> , 2020, 21, 30-41.	7.0	169
6	The Neglected CRAC Proteins. <i>Current Topics in Membranes</i> , 2013, 71, 237-271.	0.5	121
7	Redox regulation of calcium ion channels: Chemical and physiological aspects. <i>Cell Calcium</i> , 2011, 50, 407-423.	1.1	108
8	A STIM2 splice variant negatively regulates store-operated calcium entry. <i>Nature Communications</i> , 2015, 6, 6899.	5.8	105
9	TRPV6 potentiates calcium-dependent cell proliferation. <i>Cell Calcium</i> , 2006, 39, 163-173.	1.1	95
10	A calcium optimum for cytotoxic T lymphocyte and natural killer cell cytotoxicity. <i>Journal of Physiology</i> , 2018, 596, 2681-2698.	1.3	64
11	Genetically determined NLRP3 inflammasome activation associates with systemic inflammation and cardiovascular mortality. <i>European Heart Journal</i> , 2021, 42, 1742-1756.	1.0	63
12	Mutations of the Ca ²⁺ -sensing Stromal Interaction Molecule STIM1 Regulate Ca ²⁺ Influx by Altered Oligomerization of STIM1 and by Destabilization of the Ca ²⁺ Channel Orai1. <i>Journal of Biological Chemistry</i> , 2013, 288, 1653-1664.	1.6	60
13	Cross-linking of Orai1 channels by STIM proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3398-E3407.	3.3	60
14	Redox signals at the ER-mitochondria interface control melanoma progression. <i>EMBO Journal</i> , 2019, 38, e100871.	3.5	59
15	Redox Regulation of Ion Channels. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 859-862.	2.5	56
16	A calcium-redox feedback loop controls human monocyte immune responses: The role of ORAI Ca ²⁺ channels. <i>Science Signaling</i> , 2016, 9, ra26.	1.6	55
17	ORAI1 Ca ²⁺ Channels Control Endothelin-1-Induced Mitogenesis and Melanogenesis in Primary Human Melanocytes. <i>Journal of Investigative Dermatology</i> , 2012, 132, 1443-1451.	0.3	54
18	Facilitation of Orai3 targeting and store-operated function by Orai1. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 1541-1550.	1.9	45

#	ARTICLE	IF	CITATIONS
19	ROS and SOCE: recent advances and controversies in the regulation of STIM and Orai. <i>Journal of Physiology</i> , 2012, 590, 4193-4200.	1.3	44
20	Interleukin-1 β Is a Central Regulator of Leukocyte-Endothelial Adhesion in Myocardial Infarction and in Chronic Kidney Disease. <i>Circulation</i> , 2021, 144, 893-908.	1.6	36
21	A short isoform of STIM1 confers frequency-dependent synaptic enhancement. <i>Cell Reports</i> , 2021, 34, 108844.	2.9	34
22	Changing calcium: CRAC channel (STIM and Orai) expression, splicing, and posttranslational modifiers. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C701-C709.	2.1	32
23	Thiol dependent intramolecular locking of Orai1 channels. <i>Scientific Reports</i> , 2016, 6, 33347.	1.6	31
24	Cell type-specific glycosylation of Orai1 modulates store-operated Ca ²⁺ entry. <i>Science Signaling</i> , 2016, 9, ra25.	1.6	30
25	Pharmacology of ORAI channels as a tool to understand their physiological functions. <i>Expert Review of Clinical Pharmacology</i> , 2010, 3, 291-303.	1.3	29
26	Modulation of intracellular calcium signaling by microRNA-34a-5p. <i>Cell Death and Disease</i> , 2018, 9, 1008.	2.7	26
27	ATP modulates Ca ²⁺ uptake by TRPV6 and is counteracted by isoform-specific phosphorylation. <i>FASEB Journal</i> , 2010, 24, 425-435.	0.2	22
28	Interplay of channels, pumps and organelle location in calcium microdomain formation. <i>New Journal of Physics</i> , 2013, 15, 055022.	1.2	16
29	Large dense-core vesicle exocytosis from mouse dorsal root ganglion neurons is regulated by neuropeptide Y. <i>Neuroscience</i> , 2017, 346, 1-13.	1.1	16
30	Visualizing Quantum Dot Labeled ORAI1 Proteins in Intact Cells Via Correlative Light and Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 902-912.	0.2	15
31	Profiling calcium signals of in vitro polarized human effector CD4 ⁺ T cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 932-943.	1.9	15
32	Detecting single ORAI1 proteins within the plasma membrane reveals higher order channel complexes. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	14
33	A longer isoform of Stim1 is a negative SOCE regulator but increases cAMP-modulated NFAT signaling. <i>EMBO Reports</i> , 2022, 23, e53135.	2.0	13
34	Reaction-diffusion model for STIM-ORAI interaction: The role of ROS and mutations. <i>Journal of Theoretical Biology</i> , 2019, 470, 64-75.	0.8	10
35	Remodelling of Ca ²⁺ homeostasis is linked to enlarged endoplasmic reticulum in secretory cells. <i>Cell Calcium</i> , 2021, 99, 102473.	1.1	8
36	Excitable T Cells: CaV1.4 Channel Contributions and Controversies. <i>Immunity</i> , 2011, 35, 315-317.	6.6	7

#	ARTICLE	IF	CITATIONS
37	Expression of the LRRC52 g subunit (g ₂) may provide Ca ²⁺ independent activation of BK currents in mouse inner hair cells. <i>FASEB Journal</i> , 2019, 33, 11721-11734.	0.2	7
38	The impact of capsaicinoids on APP processing in Alzheimer's disease in SH-SY5Y cells. <i>Scientific Reports</i> , 2020, 10, 9164.	1.6	7
39	Plasma Membrane Calcium ATPase Regulates Stoichiometry of CD4+ T-Cell Compartments. <i>Frontiers in Immunology</i> , 2021, 12, 687242.	2.2	7
40	The STIM-Orai Pathway: Regulation of STIM and Orai by Thiol Modifications. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 99-116.	0.8	6
41	STIM proteins at the intersection of signaling pathways. <i>Current Opinion in Physiology</i> , 2020, 17, 63-73.	0.9	4
42	High glucose distinctively regulates Ca ²⁺ influx in cytotoxic T lymphocytes upon target recognition and thapsigargin stimulation. <i>European Journal of Immunology</i> , 2020, 50, 2095-2098.	1.6	4
43	Supra-Molecular Assemblies of ORAI1 at Rest Precede Local Accumulation into Puncta after Activation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 799.	1.8	4
44	X-ray irradiation triggers immune response in human T-lymphocytes via store-operated Ca ²⁺ entry and NFAT activation. <i>Journal of General Physiology</i> , 2022, 154, .	0.9	3
45	TRICKing SOCE into altered oscillations. <i>Cell Calcium</i> , 2020, 92, 102290.	1.1	1
46	On the Connections between TRPM Channels and SOCE. <i>Cells</i> , 2022, 11, 1190.	1.8	1
47	Stepping out of the shadow: STIM2 promotes IL-3-induced cytokine release. <i>Science Signaling</i> , 2019, 12, .	1.6	0