Jonathan Soboloff

List of Publications by Year
in descending order

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79 papers	6,625 citations	101384 36 h-index	79541 73 g-index
82 all docs	82 docs citations	82 times ranked	6303 citing authors

#	Article	IF	Citations
1	STIM proteins: dynamic calcium signal transducers. Nature Reviews Molecular Cell Biology, 2012, 13, 549-565.	16.1	573
2	CRACM1 Multimers Form the Ion-Selective Pore of the CRAC Channel. Current Biology, 2006, 16, 2073-2079.	1.8	516
3	Orai1 and STIM Reconstitute Store-operated Calcium Channel Function. Journal of Biological Chemistry, 2006, 281, 20661-20665.	1.6	490
4	A common mechanism underlies stretch activation and receptor activation of TRPC6 channels. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16586-16591.	3.3	436
5	Dynamic Assembly of TRPC1-STIM1-Orai1 Ternary Complex Is Involved in Store-operated Calcium Influx. Journal of Biological Chemistry, 2007, 282, 9105-9116.	1.6	358
6	The Calcium Store Sensor, STIM1, Reciprocally Controls Orai and Ca _V 1.2 Channels. Science, 2010, 330, 105-109.	6.0	309
7	STIM1 has a plasma membrane role in the activation of store-operated Ca2+ channels. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4040-4045.	3.3	286
8	STIM2 Is an Inhibitor of STIM1-Mediated Store-Operated Ca2+ Entry. Current Biology, 2006, 16, 1465-1470.	1.8	223
9	S-glutathionylation activates STIM1 and alters mitochondrial homeostasis. Journal of Cell Biology, 2010, 190, 391-405.	2.3	201
10	Mitochondrial Ca2+ Uniporter Is a Mitochondrial Luminal Redox Sensor that Augments MCU Channel Activity. Molecular Cell, 2017, 65, 1014-1028.e7.	4.5	179
11	A Functional Link between Store-operated and TRPC Channels Revealed by the 3,5-Bis(trifluoromethyl)pyrazole Derivative, BTP2. Journal of Biological Chemistry, 2005, 280, 10997-11006.	1.6	177
12	Blockade of NOX2 and STIM1 signaling limits lipopolysaccharide-induced vascular inflammation. Journal of Clinical Investigation, 2013, 123, 887-902.	3.9	163
13	Role of STIM and Orai proteins in the store-operated calcium signaling pathway. Cell Calcium, 2007, 42, 173-182.	1.1	162
14	Role of Endogenous TRPC6 Channels in Ca2+ Signal Generation in A7r5 Smooth Muscle Cells. Journal of Biological Chemistry, 2005, 280, 39786-39794.	1.6	147
15	STIM2 protein mediates distinct storeâ€dependent and storeâ€independent modes of CRAC channel activation. FASEB Journal, 2008, 22, 752-761.	0.2	140
16	Distinct Orai-coupling domains in STIM1 and STIM2 define the Orai-activating site. Nature Communications, 2014, 5, 3183.	5.8	140
17	STIM protein coupling in the activation of Orai channels. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7391-7396.	3.3	121
18	Sarco(endo)plasmic reticulum Ca2+ ATPase (SERCA) gene silencing and remodeling of the Ca2+ signaling mechanism in cardiac myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16683-16688.	3.3	112

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19	STIM and Orai: Dynamic Intermembrane Coupling to Control Cellular Calcium Signals. Journal of Biological Chemistry, 2009, 284, 22501-22505.	1.6	107
20	Ezh2 phosphorylation state determines its capacity to maintain CD8+ T memory precursors for antitumor immunity. Nature Communications, 2017, 8, 2125.	5.8	99
21	STIM, ORAI AND TRPC CHANNELS IN THE CONTROL OF CALCIUM ENTRY SIGNALS IN SMOOTH MUSCLE. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 1127-1133.	0.9	98
22	The Short N-terminal Domains of STIM1 and STIM2 Control the Activation Kinetics of Orai1 Channels. Journal of Biological Chemistry, 2009, 284, 19164-19168.	1.6	97
23	Interferon-Î³ Signaling in Melanocytes and Melanoma Cells Regulates Expression of CTLA-4. Cancer Research, 2018, 78, 436-450.	0.4	96
24	Calcium entry mediated by SOCs and TRP channels: variations and enigma. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1742, 9-20.	1.9	91
25	STIM1 is required for attenuation of PMCA-mediated Ca²⁺clearance during T-cell activation. EMBO Journal, 2012, 31, 1123-1133.	3.5	87
26	Sustained ER Ca2+ Depletion Suppresses Protein Synthesis and Induces Activation-enhanced Cell Death in Mast Cells. Journal of Biological Chemistry, 2002, 277, 13812-13820.	1.6	83
27	Stimulation of Ca ²⁺ â€channel Orai1/STIM1 by serumâ€and glucocorticoidâ€inducible kinase 1 (SGK1). FASEB Journal, 2011, 25, 2012-2021.	0.2	82
28	Calcium signals mediated by STIM and Orai proteinsâ€”A new paradigm in inter-organelle communication. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1161-1168.	1.9	75
29	Gene disruption of the calcium channel Orai1 results in inhibition of osteoclast and osteoblast differentiation and impairs skeletal development. Laboratory Investigation, 2012, 92, 1071-1083.	1.7	62
30	Inhibition of Ca2+Influx Is Required for Mitochondrial Reactive Oxygen Species-Induced Endoplasmic Reticulum Ca2+Depletion and Cell Death in Leukemia Cells. Molecular Pharmacology, 2006, 70, 1424-1434.	1.0	54
31	Wilms Tumor Suppressor 1 (WT1) and Early Growth Response 1 (EGR1) Are Regulators of STIM1 Expression. Journal of Biological Chemistry, 2010, 285, 10591-10596.	1.6	51
32	Mitochondrial pyruvate and fatty acid flux modulate MICU1-dependent control of MCU activity. Science Signaling, 2020, 13, .	1.6	48
33	Location and Function of STIM1 in the Activation of Ca2+ Entry Signals. Journal of Biological Chemistry, 2008, 283, 26252-26262.	1.6	44
34	The role of calcium release activated calcium channels in osteoclast differentiation. Journal of Cellular Physiology, 2011, 226, 1082-1089.	2.0	44
35	Novel Protein Kinase C-Mediated Control of Orai1 Function in Invasive Melanoma. Molecular and Cellular Biology, 2015, 35, 2790-2798.	1.1	42
36	Cocaine inhibits store-operated Ca2+ entry in brain microvascular endothelial cells: critical role for sigma-1 receptors. Biochemical Journal, 2016, 473, 1-5.	1.7	39

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37	Sensitivity of myeloid leukemia cells to calcium influx blockade. Experimental Hematology, 2002, 30, 1219-1226.	0.2	38
38	Sensing cellular stress through STIM proteins. Nature Chemical Biology, 2011, 7, 488-492.	3.9	37
39	T cell activation triggers reversible inosine-5â€²-monophosphate dehydrogenase assembly. Journal of Cell Science, 2018, 131, .	1.2	37
40	Role of STIM1 (Stromal Interaction Molecule 1) in Hypertrophy-Related Contractile Dysfunction. Circulation Research, 2017, 121, 125-136.	2.0	36
41	Stim1, an endoplasmic reticulum Ca2+ sensor, negatively regulates 3T3-L1 pre-adipocyte differentiation. Differentiation, 2009, 77, 239-247.	1.0	33
42	Multifaceted roles of STIM proteins. Pflugers Archiv European Journal of Physiology, 2013, 465, 1383-1396.	1.3	32
43	Transcriptional mechanisms regulating Ca2+ homeostasis. Cell Calcium, 2011, 49, 314-321.	1.1	30
44	The Ca ²⁺ export pump PMCA clears near-membrane Ca ²⁺ to facilitate store-operated Ca ²⁺ entry and NFAT activation. Science Signaling, 2019, 12, .	1.6	27
45	Mast cells stimulated by membrane-bound, but not soluble, steel factor are dependent on phospholipase C activation. Cellular and Molecular Life Sciences, 2003, 60, 759-766.	2.4	22
46	WT1/EGR1-mediated control of STIM1 expression and function in cancer cells. Frontiers in Bioscience - Landmark, 2011, 16, 2402.	3.0	21
47	Control of Type I Interferon-induced Cell Death by Orai1-mediated Calcium Entry in T Cells. Journal of Biological Chemistry, 2012, 287, 3207-3216.	1.6	19
48	STIMATE reveals a STIM1 transitional state. Nature Cell Biology, 2015, 17, 1232-1234.	4.6	19
49	GluA2 overexpression in oligodendrocyte progenitors promotes postinjury oligodendrocyte regeneration. Cell Reports, 2021, 35, 109147.	2.9	19
50	SIGNAL TRANSDUCTION: Calcium Entry Signals--Trickles and Torrents. Science, 2006, 313, 183-184.	6.0	18
51	Suppression of Ca²⁺ signals by <scp>EGR</scp>4 controls Th1 differentiation and antiâ€cancer immunity inÂvivo. EMBO Reports, 2020, 21, e48904.	2.0	17
52	Ca2+ as a therapeutic target in cancer. Advances in Cancer Research, 2020, 148, 233-317.	1.9	16
53	Influence of Tumor Necrosis Factor Alpha on Intracellular Ca2+ in Hen Granulosa Cells in Vitro during Follicular Development1. Biology of Reproduction, 1995, 53, 546-552.	1.2	15
54	Novel STIM1â€dependent control of Ca²⁺clearance regulates NFAT activity during Tâ€cell activation. FASEB Journal, 2016, 30, 3878-3886.	0.2	14

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55	The heterogeneity of store-operated calcium entry in melanoma. Science China Life Sciences, 2016, 59, 764-769.	2.3	14
56	The roles of Orai and Stim in bone health and disease. Cell Calcium, 2019, 81, 51-58.	1.1	14
57	Neuronal STIMulation at Rest. Science Signaling, 2014, 7, pe18.	1.6	13
58	Acyl Chain Length-Specific Ceramide-Induced Changes in Intracellular Ca2+ Concentration and Progesterone Production Are Not Regulated by Tumor Necrosis Factor Î± in Hen Granulosa Cells1. Biology of Reproduction, 1999, 60, 262-271.	1.2	12
59	Acetylation of SERCA2a, Another Target for Heart Failure Treatment?. Circulation Research, 2019, 124, 1285-1287.	2.0	12
60	Control of STIM and Orai function by post-translational modifications. Cell Calcium, 2022, 103, 102544.	1.1	11
61	EGR-mediated control of STIM expression and function. Cell Calcium, 2019, 77, 58-67.	1.1	9
62	Suppression of arthritis-induced bone erosion by a CRAC channel antagonist. RMD Open, 2016, 2, e000093.	1.8	8
63	The critical role of STIM1-dependent Ca2+ signalling during T-cell development and activation. International Journal of Biochemistry and Cell Biology, 2013, 45, 2491-2495.	1.2	7
64	Hold the door: hPMCA1/neuroplastin interactions regulate Ca2+-binding site accessibility. Cell Calcium, 2018, 76, 135-136.	1.1	7
65	Influence of the Muscarinic Agonist Carbachol on Intracellular Ca2+ in Chicken Granulosa Cells: I. Dependence on Follicular Maturation1. Biology of Reproduction, 1995, 52, 721-728.	1.2	6
66	Tamoxifen-Inducible Cre-Mediated Calreticulin Excision to Study Mouse Embryonic Stem Cell Differentiation. Stem Cells and Development, 2009, 18, 187-194.	1.1	4
67	The function of the calcium channel Orai1 in osteoclast development. FASEB Journal, 2021, 35, e21653.	0.2	4
68	The short N-terminal domains of STIM1 and STIM2 control the activation kinetics of Orai1 channels.. Journal of Biological Chemistry, 2009, 284, 25459.	1.6	3
69	Sterol hindrance of Orai activation. Science Signaling, 2016, 9, fs4.	1.6	3
70	STIM1 structure-function and downstream signaling pathways. Cell Calcium, 2019, 80, 101-102.	1.1	3
71	Palmitoylation: A new mechanism for control of NCX1 function. Cell Calcium, 2020, 91, 102254.	1.1	2
72	ERK2 Substrate Binding Domains Perform Opposing Roles in Pathogenesis of a JAK2V617F-Driven Myeloproliferative Neoplasm. Blood, 2021, 138, 2547-2547.	0.6	2

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73	Critical Role for the Calcium-Release Activated Calcium Channel Orai1 In RANKL-Stimulated Osteoclast Formation From Monocytic Cells. Blood, 2010, 116, 928-928.	0.6	1
74	Differential Control of STIM1 Expression and Function by EGR Family Members in T Cells. Biophysical Journal, 2013, 104, 100a.	0.2	0
75	Aberrant Store-Operated Calcium Entry (SOCE) in Invasive Melanoma. Biophysical Journal, 2013, 104, 101a.	0.2	0
76	Distinct Orai-Coupling Domains in Stim1 and Stim2 Define the Orai-Activating Site. Biophysical Journal, 2014, 106, 314a.	0.2	0
77	Defining Post as a Modulator of STIM1 Function during T Cell Activation. Biophysical Journal, 2015, 108, 128a.	0.2	0
78	<scp>STIM</scp> 1 (c) <scp>AMP</scp> s up melanogenesis. EMBO Journal, 2018, 37, .	3.5	0
79	Stim1 Deletion Synthetically Rescues Ezh2-Null Effector T Cells and Alloimmunity. Blood, 2018, 132, 4533-4533.	0.6	0