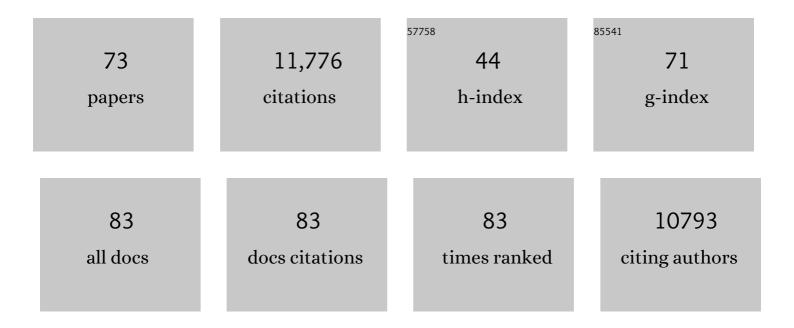
Murali Prakriya

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A mutation in Orai1 causes immune deficiency by abrogating CRAC channel function. Nature, 2006, 441, 179-185.	27.8	2,016
2	Orail is an essential pore subunit of the CRAC channel. Nature, 2006, 443, 230-233.	27.8	1,223
3	Mitochondria Are Required for Antigen-Specific T Cell Activation through Reactive Oxygen Species Signaling. Immunity, 2013, 38, 225-236.	14.3	981
4	Store-Operated Calcium Channels. Physiological Reviews, 2015, 95, 1383-1436.	28.8	922
5	Dual functions for the endoplasmic reticulum calcium sensors STIM1 and STIM2 in T cell activation and tolerance. Nature Immunology, 2008, 9, 432-443.	14.5	528
6	Oligomerization of STIM1 couples ER calcium depletion to CRAC channel activation. Nature, 2008, 454, 538-542.	27.8	501
7	Potentiation and inhibition of Ca ²⁺ releaseâ€activated Ca ²⁺ channels by 2â€aminoethyldiphenyl borate (2â€APB) occurs independently of IP ₃ receptors. Journal of Physiology, 2001, 536, 3-19.	2.9	463
8	lon channels and transporters in lymphocyte function and immunity. Nature Reviews Immunology, 2012, 12, 532-547.	22.7	364
9	Hypoxia Triggers AMPK Activation through Reactive Oxygen Species-Mediated Activation of Calcium Release-Activated Calcium Channels. Molecular and Cellular Biology, 2011, 31, 3531-3545.	2.3	329
10	Hair Loss and Defective T- and B-Cell Function in Mice Lacking ORAI1. Molecular and Cellular Biology, 2008, 28, 5209-5222.	2.3	275
11	Separation and Characterization of Currents through Store-operated CRAC Channels and Mg2+-inhibited Cation (MIC) Channels. Journal of General Physiology, 2002, 119, 487-508.	1.9	262
12	A severe defect in CRAC Ca2+ channel activation and altered K+ channel gating in T cells from immunodeficient patients. Journal of Experimental Medicine, 2005, 202, 651-662.	8.5	220
13	Gated regulation of CRAC channel ion selectivity by STIM1. Nature, 2012, 482, 241-245.	27.8	198
14	STIM1–Orai1 interactions and Orai1 conformational changes revealed by liveâ€cell FRET microscopy. Journal of Physiology, 2008, 586, 5383-5401.	2.9	195
15	ORAI2 modulates store-operated calcium entry and T cell-mediated immunity. Nature Communications, 2017, 8, 14714.	12.8	158
16	Regulation of neurogenesis by calcium signaling. Cell Calcium, 2016, 59, 124-134.	2.4	157
17	CRAC channels: activation, permeation, and the search for a molecular identity. Cell Calcium, 2003, 33, 311-321.	2.4	154
18	Epac2 induces synapse remodeling and depression and its disease-associated forms alter spines. Nature Neuroscience, 2009, 12, 1275-1284.	14.8	148

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19	Structural determinants of ion permeation in CRAC channels. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22516-22521.	7.1	137
20	Regulation of CRAC Channel Activity by Recruitment of Silent Channels to a High Open-probability Gating Mode. Journal of General Physiology, 2006, 128, 373-386.	1.9	133
21	Store-Operated Ca2+ Entry through ORAI1 Is Critical for T Cell-Mediated Autoimmunity and Allograft Rejection. Journal of Immunology, 2010, 185, 5845-5858.	0.8	133
22	Hypoxia Leads to Na,K-ATPase Downregulation via Ca ²⁺ Release-Activated Ca ²⁺ Channels and AMPK Activation. Molecular and Cellular Biology, 2011, 31, 3546-3556.	2.3	127
23	Store-Operated CRAC Channels Regulate Gene Expression and Proliferation in Neural Progenitor Cells. Journal of Neuroscience, 2014, 34, 9107-9123.	3.6	123
24	Orai1 Mutations Alter Ion Permeation and Ca2+-dependent Fast Inactivation of CRAC Channels: Evidence for Coupling of Permeation and Gating. Journal of General Physiology, 2007, 130, 525-540.	1.9	114
25	The molecular physiology of CRAC channels. Immunological Reviews, 2009, 231, 88-98.	6.0	111
26	The C―and Nâ€ŧerminal STIM1 binding sites on Orai1 are required for both trapping and gating CRAC channels. Journal of Physiology, 2013, 591, 2833-2850.	2.9	111
27	Selective Depression of Low–Release Probability Excitatory Synapses by Sodium Channel Blockers. Neuron, 2000, 26, 671-682.	8.1	100
28	Activation of GPCRs modulates quantal size in chromaffin cells through $G\hat{I}^2\hat{I}^3$ and PKC. Nature Neuroscience, 2005, 8, 1160-1168.	14.8	97
29	BK Channel Activation by Brief Depolarizations Requires Ca ²⁺ Influx Through L- and Q-Type Ca ²⁺ Channels in Rat Chromaffin Cells. Journal of Neurophysiology, 1999, 81, 2267-2278.	1.8	94
30	STIM1 activates CRAC channels through rotation of the pore helix to open a hydrophobic gate. Nature Communications, 2017, 8, 14512.	12.8	87
31	Structural and Functional Mechanisms of CRAC Channel Regulation. Journal of Molecular Biology, 2015, 427, 77-93.	4.2	79
32	Molecular pharmacology of store-operated CRAC channels. Channels, 2013, 7, 402-414.	2.8	77
33	Metformin Targets Mitochondrial Electron Transport to Reduce Air-Pollution-Induced Thrombosis. Cell Metabolism, 2019, 29, 335-347.e5.	16.2	75
34	CRAC channels regulate astrocyte Ca ²⁺ signaling and gliotransmitter release to modulate hippocampal GABAergic transmission. Science Signaling, 2019, 12, .	3.6	68
35	Activation of BK Channels in Rat Chromaffin Cells Requires Summation of Ca ²⁺ Influx From Multiple Ca ²⁺ Channels. Journal of Neurophysiology, 2000, 84, 1123-1135.	1.8	66
36	Store-Operated Orai Channels. Current Topics in Membranes, 2013, 71, 1-32.	0.9	66

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37	[Ca ²⁺] _i Elevations Detected by BK Channels during Ca ²⁺ Influx and Muscarine-Mediated Release of Ca ²⁺ from Intracellular Stores in Rat Chromaffin Cells. Journal of Neuroscience, 1996, 16, 4344-4359.	3.6	55
38	The calcium ATPase SERCA2 regulates desmoplakin dynamics and intercellular adhesive strength through modulation of PKCα signaling. FASEB Journal, 2011, 25, 990-1001.	0.5	55
39	Molecular basis of allosteric Orai1 channel activation by STIM1. Journal of Physiology, 2020, 598, 1707-1723.	2.9	55
40	Missense mutation in immunodeficient patients shows the multifunctional roles of coiled-coil domain 3 (CC3) in STIM1 activation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6206-6211.	7.1	52
41	Mapping the functional anatomy of Orai1 transmembrane domains for CRAC channel gating. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5193-E5202.	7.1	52
42	Permeation, selectivity and gating in storeâ€operated CRAC channels. Journal of Physiology, 2012, 590, 4179-4191.	2.9	51
43	Enantioselective Blockade of T-type Ca ²⁺ Current in Adult Rat Sensory Neurons by a Steroid That Lacks γ-Aminobutyric Acid-Modulatory Activity. Molecular Pharmacology, 1998, 54, 918-927.	2.3	50
44	Competitive Modulation of Ca2+ Release-activated Ca2+ Channel Gating by STIM1 and 2-Aminoethyldiphenyl Borate. Journal of Biological Chemistry, 2011, 286, 9429-9442.	3.4	50
45	Store-Operated Ca2+ Release-Activated Ca2+ Channels Regulate PAR2-Activated Ca2+ Signaling and Cytokine Production in Airway Epithelial Cells. Journal of Immunology, 2015, 195, 2122-2133.	0.8	47
46	Allergens stimulate store-operated calcium entry and cytokine production in airway epithelial cells. Scientific Reports, 2016, 6, 32311.	3.3	44
47	Depletion of H ₂ S during obesity enhances store-operated Ca ²⁺ entry in adipose tissue macrophages to increase cytokine production. Science Signaling, 2015, 8, ra128.	3.6	40
48	Conformational Changes in the Orai1 C-Terminus Evoked by STIM1 Binding. PLoS ONE, 2015, 10, e0128622.	2.5	38
49	Conformational dynamics of STIM1 activation. Nature Structural and Molecular Biology, 2013, 20, 918-919.	8.2	35
50	Pore opening mechanism of CRAC channels. Cell Calcium, 2017, 63, 14-19.	2.4	33
51	Divergence of Ca2+ selectivity and equilibrium Ca2+ blockade in a Ca2+ release-activated Ca2+ channel. Journal of General Physiology, 2014, 143, 325-343.	1.9	30
52	Orai1 Channels Are Essential for Amplification of Glutamate-Evoked Ca2+ Signals in Dendritic Spines to Regulate Working and Associative Memory. Cell Reports, 2020, 33, 108464.	6.4	24
53	The basic residues in the Orai1 channel inner pore promote opening of the outer hydrophobic gate. Journal of General Physiology, 2020, 152, .	1.9	21
54	Cavβ1 regulates T cell expansion and apoptosis independently of voltage-gated Ca2+ channel function. Nature Communications, 2022, 13, 2033.	12.8	18

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55	A computerized grid walking system for evaluating the accuracy of locomotion in rats. Journal of Neuroscience Methods, 1993, 48, 15-25.	2.5	16
56	Calcium and cell function. Journal of Physiology, 2020, 598, 1647-1648.	2.9	14
57	Permeation and gating mechanisms in store-operated CRAC channels. Frontiers in Bioscience - Landmark, 2012, 17, 1613.	3.0	13
58	A sulfur-aromatic gate latch is essential for opening of the Orai1 channel pore. ELife, 2020, 9, .	6.0	13
59	Differential Regulation of ATP- and UTP-Evoked Prostaglandin E2 and IL-6 Production from Human Airway Epithelial Cells. Journal of Immunology, 2021, 207, 1275-1287.	0.8	12
60	Regulation of chemoconvulsantâ€induced seizures by storeâ€operated Orai1 channels. Journal of Physiology, 2020, 598, 5391-5409.	2.9	9
61	The exquisitely cooperative nature of Orai1 channel activation. Journal of General Physiology, 2018, 150, 1352-1355.	1.9	8
62	Mapping interactions between the CRAC activation domain and CC1 regulating the activity of the ER Ca2+ sensor STIM1. Journal of Biological Chemistry, 2022, 298, 102157.	3.4	8
63	Store-operated calcium channels: properties, functions and the search for a molecular mechanism. Advances in Molecular and Cell Biology, 2004, 32, 121-140.	0.1	7
64	Calcium releaseâ€activated calcium (CRAC) channels mediate the β ₂ â€adrenergic regulation of Na,Kâ€ATPase. FEBS Letters, 2014, 588, 4686-4693.	2.8	6
65	Preface. Current Topics in Membranes, 2013, 71, xi-xii.	0.9	3
66	MCU meets cardiolipin: Calcium and disease follow form. Cell Calcium, 2020, 92, 102287.	2.4	2
67	Orai1 is in neurons: Reply to "where have all the Orais gone?― Cell Calcium, 2021, 96, 102389.	2.4	2
68	Interrogating permeation and gating of Orai channels using chemical modification of cysteine residues. Methods in Enzymology, 2021, 652, 213-239.	1.0	1
69	An open pore structure of the Orai channel, finally. Cell Calcium, 2021, 94, 102366.	2.4	1
70	Distinct Functional Roles of the N- and C-Terminal STIM1 Binding Sites in Orai1 for Trapping and Gating of CRAC Channels. Biophysical Journal, 2013, 104, 101a.	0.5	0
71	16th FASEB Science Research Conference on Calcium and Cell Function: Calcium channels and signaling in health and disease. Journal of General Physiology, 2016, 148, 359-365.	1.9	0
72	Interactions between Transmembrane Helices in Orai1 Regulate CRAC Channel Gating. Biophysical Journal, 2017, 112, 537a-538a.	0.5	0

#	Article	IF	CITATIONS
73	Extracellular Nucleotides and Histamine Suppress TLR3- and RIG-l–Mediated Release of Antiviral IFNs from Human Airway Epithelial Cells. Journal of Immunology, 2022, 208, 2390-2402.	0.8	0