

Anant B Parekh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	6,127 citations	37 h-index	77 g-index
111 ext. papers	6,572 ext. citations	9.1 avg, IF	6.4 L-index

#	Paper	IF	Citations
90	Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. <i>Molecular Cell</i> , 2021 , 81, 4784-4798.e7	17.6	2
89	The N terminus of Orai1 couples to the AKAP79 signaling complex to drive NFAT1 activation by local Ca entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	12
88	Store-Operated Ca Channels: Mechanism, Function, Pharmacology, and Therapeutic Targets. <i>Annual Review of Pharmacology and Toxicology</i> , 2021 , 61, 629-654	17.9	7
87	AKAP79 Orchestrates a Cyclic AMP Signalingosome Adjacent to Orai1 Ca Channels. <i>Function</i> , 2021 , 2, zqab036	03.6	4
86	Cytosolic and intra-organellar Ca ²⁺ oscillations: mechanisms and function. <i>Current Opinion in Physiology</i> , 2020 , 17, 175-186	2.6	
85	The whole-cell Ca release-activated Ca current, I _{CR} , is regulated by the mitochondrial Ca uniporter channel and is independent of extracellular and cytosolic Na ⁺ . <i>Journal of Physiology</i> , 2020 , 598, 1753-1773	3.9	6
84	Single-nucleotide polymorphisms in Orai1 associated with atopic dermatitis inhibit protein turnover, decrease calcium entry and disrupt calcium-dependent gene expression. <i>Human Molecular Genetics</i> , 2020 , 29, 1808-1823	5.6	9
83	Signaling through Ca Microdomains from Store-Operated CRAC Channels. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020 , 12,	10.2	5
82	Selective recruitment of different Ca-dependent transcription factors by STIM1-Orai1 channel clusters. <i>Nature Communications</i> , 2019 , 10, 2516	17.4	13
81	The Allergen Der p3 from House Dust Mite Stimulates Store-Operated Ca Channels and Mast Cell Migration through PAR4 Receptors. <i>Molecular Cell</i> , 2018 , 70, 228-241.e5	17.6	15
80	Sequential forward and reverse transport of the Na ⁺ Ca exchanger generates Ca oscillations within mitochondria. <i>Nature Communications</i> , 2018 , 9, 156	17.4	38
79	Regulation of CRAC channels by Ca-dependent inactivation. <i>Cell Calcium</i> , 2017 , 63, 20-23	4	22
78	Spatial Ca profiling: decrypting the universal cytosolic Ca oscillation. <i>Journal of Physiology</i> , 2017 , 595, 3053-3062	3.9	31
77	Control of NFAT Isoform Activation and NFAT-Dependent Gene Expression through Two Coincident and Spatially Segregated Intracellular Ca Signals. <i>Molecular Cell</i> , 2016 , 64, 746-759	17.6	39
76	Store-operated Ca ²⁺ channels in airway epithelial cell function and implications for asthma. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	8
75	Distinct spatial Ca ²⁺ signatures selectively activate different NFAT transcription factor isoforms. <i>Molecular Cell</i> , 2015 , 58, 232-43	17.6	91
74	Ca ²⁺ Influx through Store-operated Calcium Channels Replenishes the Functional Phosphatidylinositol 4,5-Bisphosphate Pool Used by Cysteinyl Leukotriene Type I Receptors. <i>Journal of Biological Chemistry</i> , 2015 , 290, 29555-66	5.4	10

73	Ca(2+) Channel Re-localization to Plasma-Membrane Microdomains Strengthens Activation of Ca(2+)-Dependent Nuclear Gene Expression. <i>Cell Reports</i> , 2015 , 12, 203-16	10.6	25
72	Distinct structural domains of caveolin-1 independently regulate Ca2+ release-activated Ca2+ channels and Ca2+ microdomain-dependent gene expression. <i>Molecular and Cellular Biology</i> , 2015 , 35, 1341-9	4.8	29
71	Dynamic assembly of a membrane signaling complex enables selective activation of NFAT by Orai1. <i>Current Biology</i> , 2014 , 24, 1361-1368	6.3	70
70	Mitochondrial calcium uniporter MCU supports cytoplasmic Ca2+ oscillations, store-operated Ca2+ entry and Ca2+-dependent gene expression in response to receptor stimulation. <i>PLoS ONE</i> , 2014 , 9, e101178	3.7	59
69	Key role for store-operated Ca2+ channels in activating gene expression in human airway bronchial epithelial cells. <i>PLoS ONE</i> , 2014 , 9, e105586	3.7	20
68	Caveolin-1 alters the pattern of cytoplasmic Ca2+ oscillations and Ca2+-dependent gene expression by enhancing leukotriene receptor desensitization. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17843-53	5.4	13
67	STIM proteins, Orai1 and gene expression. <i>Channels</i> , 2013 , 7, 374-8	3	14
66	CRAC channels drive digital activation and provide analog control and synergy to Ca(2+)-dependent gene regulation. <i>Current Biology</i> , 2012 , 22, 242-7	6.3	57
65	Cysteinyl leukotriene type I receptor desensitization sustains Ca2+-dependent gene expression. <i>Nature</i> , 2012 , 482, 111-5	50.4	29
64	Different agonists recruit different stromal interaction molecule proteins to support cytoplasmic Ca2+ oscillations and gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6969-74	11.5	91
63	Ion channels in patho-physiology. <i>Journal of Physiology</i> , 2012 , 590, 1347	3.9	
62	Endoplasmic reticulum-mitochondria coupling: local Ca ²⁺ signalling with functional consequences. <i>Pflügers Archiv European Journal of Physiology</i> , 2012 , 464, 27-32	4.6	24
61	Mitochondrial regulation of CRAC channel-driven cellular responses. <i>Cell Calcium</i> , 2012 , 52, 52-6	4	20
60	Decoding cytosolic Ca2+ oscillations. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 78-87	10.3	167
59	Mitofusin 2 regulates STIM1 migration from the Ca2+ store to the plasma membrane in cells with depolarized mitochondria. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12189-201	5.4	83
58	Mast cell CRAC channel as a novel therapeutic target in allergy. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2011 , 11, 33-8	3.3	33
57	Selective activation of the transcription factor NFAT1 by calcium microdomains near Ca2+ release-activated Ca2+ (CRAC) channels. <i>Journal of Biological Chemistry</i> , 2011 , 286, 14795-803	5.4	97
56	Mitofusin 2 Regulates STIM1 Migration from the Ca2+ Store to the Plasma Membrane in Cells with Depolarized Mitochondria. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12189-12201	5.4	1

55	Store-operated CRAC channels: function in health and disease. <i>Nature Reviews Drug Discovery</i> , 2010 , 9, 399-410	64.1	240
54	Coupling of Ca ²⁺ microdomains to spatially and temporally distinct cellular responses by the tyrosine kinase Syk. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24767-72	5.4	42
53	Intercellular Ca ²⁺ wave propagation involving positive feedback between CRAC channels and cysteinyl leukotrienes. <i>FASEB Journal</i> , 2009 , 23, 894-905	0.9	32
52	Calcium signalling: mitofusins promote interorganellar crosstalk. <i>Current Biology</i> , 2009 , 19, R200-3	6.3	15
51	Decoding of cytoplasmic Ca ²⁺ oscillations through the spatial signature drives gene expression. <i>Current Biology</i> , 2009 , 19, 853-8	6.3	124
50	CRAC channels and Ca ²⁺ signaling in mast cells. <i>Immunological Reviews</i> , 2009 , 231, 45-58	11.3	73
49	Targeting Ca ²⁺ release-activated Ca ²⁺ channel channels and leukotriene receptors provides a novel combination strategy for treating nasal polyposis. <i>Journal of Allergy and Clinical Immunology</i> , 2009 , 124, 1014-21.e1-3	11.5	38
48	Local Ca ²⁺ influx through CRAC channels activates temporally and spatially distinct cellular responses. <i>Acta Physiologica</i> , 2009 , 195, 29-35	5.6	13
47	Ca ²⁺ microdomains near plasma membrane Ca ²⁺ channels: impact on cell function. <i>Journal of Physiology</i> , 2008 , 586, 3043-54	3.9	166
46	Mitochondrial regulation of store-operated CRAC channels. <i>Cell Calcium</i> , 2008 , 44, 6-13	4	78
45	Ca ²⁺ -dependent inactivation of the mitochondrial Ca ²⁺ uniporter involves proton flux through the ATP synthase. <i>Current Biology</i> , 2008 , 18, 855-9	6.3	85
44	Local Ca ²⁺ influx through Ca ²⁺ release-activated Ca ²⁺ (CRAC) channels stimulates production of an intracellular messenger and an intercellular pro-inflammatory signal. <i>Journal of Biological Chemistry</i> , 2008 , 283, 4622-31	5.4	69
43	Sustained activation of the tyrosine kinase Syk by antigen in mast cells requires local Ca ²⁺ influx through Ca ²⁺ release-activated Ca ²⁺ channels. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31348-55	5.4	95
42	Voltage-dependent Ba ²⁺ permeation through store-operated CRAC channels: implications for channel selectivity. <i>Cell Calcium</i> , 2007 , 42, 333-9	4	22
41	Functional consequences of activating store-operated CRAC channels. <i>Cell Calcium</i> , 2007 , 42, 111-21	4	38
40	Regulation of store-operated calcium channels by the intermediary metabolite pyruvic acid. <i>Current Biology</i> , 2007 , 17, 1076-81	6.3	39
39	All-or-none activation of CRAC channels by agonist elicits graded responses in populations of mast cells. <i>Journal of Immunology</i> , 2007 , 179, 5255-63	5.3	19
38	Biphasic regulation of mitochondrial Ca ²⁺ uptake by cytosolic Ca ²⁺ concentration. <i>Current Biology</i> , 2006 , 16, 1672-7	6.3	103

37	Ca ²⁺ influx through CRAC channels activates cytosolic phospholipase A ₂ , leukotriene C ₄ secretion, and expression of c-fos through ERK-dependent and -independent pathways in mast cells. <i>FASEB Journal</i> , 2006 , 20, 2381-3	0.9	86
36	On the activation mechanism of store-operated calcium channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 453, 303-11	4.6	37
35	Store-operated calcium channels. <i>Physiological Reviews</i> , 2005 , 85, 757-810	47.9	1757
34	Ca ²⁺ -calmodulin-dependent facilitation and Ca ²⁺ inactivation of Ca ²⁺ release-activated Ca ²⁺ channels. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8776-83	5.4	34
33	Electrophysiological Recordings of Ca ²⁺ Currents 2005 , 125-146		1
32	Close functional coupling between Ca ²⁺ release-activated Ca ²⁺ channels, arachidonic acid release, and leukotriene C ₄ secretion. <i>Journal of Biological Chemistry</i> , 2004 , 279, 29994-9	5.4	74
31	Arf-1 (ADP-ribosylation factor-1) is involved in the activation of a mammalian Na ⁺ -selective current. <i>Biochemical Journal</i> , 2004 , 377, 539-44	3.8	2
30	Mitochondrial regulation of intracellular Ca ²⁺ signaling: more than just simple Ca ²⁺ buffers. <i>Physiology</i> , 2003 , 18, 252-6	9.8	34
29	Store-operated Ca ²⁺ entry: dynamic interplay between endoplasmic reticulum, mitochondria and plasma membrane. <i>Journal of Physiology</i> , 2003 , 547, 333-48	3.9	161
28	Activation of the store-operated calcium current I _{CRAC} can be dissociated from regulated exocytosis in rat basophilic leukaemia (RBL-1) cells. <i>Journal of Physiology</i> , 2003 , 553, 387-93	3.9	13
27	Monovalent cation permeability and Ca(2+) block of the store-operated Ca(2+) current I(CRAC) in rat basophilic leukemia cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2002 , 443, 892-902	4.6	70
26	Inwardly rectifying potassium currents in rat basophilic leukaemia (RBL-1) cells: regulation by spermine and implications for store-operated calcium influx. <i>Pflugers Archiv European Journal of Physiology</i> , 2002 , 444, 389-96	4.6	6
25	Effects of inhibitors of the lipo-oxygenase family of enzymes on the store-operated calcium current I(CRAC) in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , 2002 , 539, 93-106	3.9	25
24	Store-operated Ca ²⁺ entry depends on mitochondrial Ca ²⁺ uptake. <i>EMBO Journal</i> , 2002 , 21, 6744-54	13	171
23	Adenophostin A and ribophostin, but not inositol 1,4,5-trisphosphate or manno-adenophostin, activate the Ca ²⁺ release-activated Ca ²⁺ current, I(CRAC), in weak intracellular Ca ²⁺ buffer. <i>Biochemical Journal</i> , 2002 , 361, 133-41	3.8	8
22	Adenophostin A and ribophostin, but not inositol 1,4,5-trisphosphate or manno-adenophostin, activate the Ca ²⁺ release-activated Ca ²⁺ current, ICRAC, in weak intracellular Ca ²⁺ buffer. <i>Biochemical Journal</i> , 2002 , 361, 133-141	3.8	10
21	Sarcoplasmic/endoplasmic-reticulum-Ca ²⁺ -ATPase-mediated Ca ²⁺ reuptake, and not Ins(1,4,5)P ₃ receptor inactivation, prevents the activation of macroscopic Ca ²⁺ release-activated Ca ²⁺ current in the presence of physiological Ca ²⁺ buffer in rat basophilic leukaemia-1 cells. <i>Biochemical Journal</i> , 2001 , 353, 561-567	3.8	16
20	Effects of phosphatidylinositol kinase inhibitors on the activation of the store-operated calcium current ICRAC in RBL-1 cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 442, 391-5	4.6	7

19	An examination of the secretion-like coupling model for the activation of the Ca ²⁺ release-activated Ca ²⁺ current I(CRAC) in RBL-1 cells. <i>Journal of Physiology</i> , 2001 , 532, 55-71	3.9	137
18	Sarcoplasmic/endoplasmic-reticulum-Ca ²⁺ -ATPase-mediated Ca ²⁺ reuptake, and not Ins(1,4,5)P ₃ receptor inactivation, prevents the activation of macroscopic Ca ²⁺ release-activated Ca ²⁺ current in the presence of physiological Ca ²⁺ buffer in rat basophilic leukaemia-1 cells. <i>Biochemical Journal</i> , 2001 , 353, 561-7	3.8	11
17	Voltage-dependent conductance changes in the store-operated Ca ²⁺ current ICRAC in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , 2000 , 529 Pt 2, 295-306	3.9	16
16	Substantial depletion of the intracellular Ca ²⁺ stores is required for macroscopic activation of the Ca ²⁺ release-activated Ca ²⁺ current in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , 2000 , 522 Pt 2, 247-57	3.9	62
15	Ca ²⁺ store dynamics determines the pattern of activation of the store-operated Ca ²⁺ current I(CRAC) in response to InsP ₃ in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , 2000 , 523 Pt 2, 283-90	3.9	37
14	Comparison of the activation of the Ca ²⁺ release-activated Ca ²⁺ current ICRAC to InsP ₃ in Jurkat T-lymphocytes, pulmonary artery endothelia and RBL-1 cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2000 , 440, 580-7	4.6	10
13	On the characterisation of the mechanism underlying passive activation of the Ca ²⁺ release-activated Ca ²⁺ current ICRAC in rat basophilic leukaemia cells. <i>Journal of Physiology</i> , 1999 , 520 Pt 2, 407-16	3.9	35
12	Slow feedback inhibition of calcium release-activated calcium current by calcium entry. <i>Journal of Biological Chemistry</i> , 1998 , 273, 14925-32	5.4	86
11	The store-operated calcium current I(CRAC): nonlinear activation by InsP ₃ and dissociation from calcium release. <i>Cell</i> , 1997 , 89, 973-80	56.2	215
10	Calcium dependence and distribution of calcium-activated chloride channels in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1997 , 502 (Pt 3), 569-74	3.9	50
9	Nonhydrolyzable analogues of GTP activate a new Na ⁺ current in a rat mast cell line. <i>Journal of Biological Chemistry</i> , 1996 , 271, 23161-8	5.4	8
8	Effects of protein phosphorylation on the regulation of capacitative calcium influx in <i>Xenopus</i> oocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1996 , 432, 14-25	4.6	4
7	Interaction between capacitative Ca ²⁺ influx and Ca ²⁺ -dependent Cl ⁻ currents in <i>Xenopus</i> oocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 430, 954-63	4.6	19
6	Electrophysiological Recordings from <i>Xenopus</i> Oocytes 1995 , 341-356		19
5	Depletion of InsP ₃ stores activates a Ca ²⁺ and K ⁺ current by means of a phosphatase and a diffusible messenger. <i>Nature</i> , 1993 , 364, 814-8	50.4	357
4	The M ₃ muscarinic receptor links to three different transduction mechanisms with different efficacies in circular muscle of guinea-pig stomach. <i>British Journal of Pharmacology</i> , 1992 , 106, 639-43	8.6	13
3	The sources of calcium for carbachol-induced contraction in the circular smooth muscle of guinea-pig stomach. <i>British Journal of Pharmacology</i> , 1991 , 104, 412-8	8.6	21
2	Receptors involved in mechanical responses to catecholamines in the circular muscle of guinea-pig stomach treated with meclofenamate. <i>British Journal of Pharmacology</i> , 1990 , 101, 809-14	8.6	8

- 1 Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation

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