

Sandip Patel

List of Publications by Year in descending order

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122
papers

7,529
citations

36271

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145
all docs

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docs citations

145
times ranked

6899
citing authors

#	ARTICLE	IF	CITATIONS
1	NAADP Mobilizes Ca ²⁺ from Reserve Granules, Lysosome-Related Organelles, in Sea Urchin Eggs. <i>Cell</i> , 2002, 111, 703-708.	13.5	442
2	Molecular properties of inositol 1,4,5-trisphosphate receptors. <i>Cell Calcium</i> , 1999, 25, 247-264.	1.1	435
3	Essential requirement for two-pore channel 1 in NAADP-mediated calcium signaling. <i>Journal of Cell Biology</i> , 2009, 186, 201-209.	2.3	376
4	Leucine-rich repeat kinase 2 regulates autophagy through a calcium-dependent pathway involving NAADP. <i>Human Molecular Genetics</i> , 2012, 21, 511-525.	1.4	285
5	Acidic calcium stores open for business: expanding the potential for intracellular Ca ²⁺ signaling. <i>Trends in Cell Biology</i> , 2010, 20, 277-286.	3.6	233
6	Probing the Complexities of Astrocyte Calcium Signaling. <i>Trends in Cell Biology</i> , 2016, 26, 300-312.	3.6	215
7	Organelle Selection Determines Agonist-specific Ca ²⁺ Signals in Pancreatic Acinar and \hat{I}^2 Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 7234-7240.	1.6	192
8	Convergent regulation of the lysosomal two-pore channel-2 by Mg ²⁺ , NAADP, PI(3,5)P ₂ and multiple protein kinases. <i>EMBO Journal</i> , 2014, 33, 501-511.	3.5	162
9	Direct mobilisation of lysosomal Ca ²⁺ triggers complex Ca ²⁺ signals. <i>Journal of Cell Science</i> , 2013, 126, 60-66.	1.2	161
10	Sperm Deliver a New Second Messenger. <i>Current Biology</i> , 2003, 13, 125-128.	1.8	155
11	An NAADP-gated Two-pore Channel Targeted to the Plasma Membrane Uncouples Triggering from Amplifying Ca ²⁺ Signals. <i>Journal of Biological Chemistry</i> , 2010, 285, 38511-38516.	1.6	153
12	Coordination of Ca ²⁺ signalling by NAADP. <i>Trends in Biochemical Sciences</i> , 2001, 26, 482-489.	3.7	151
13	Photoaffinity Labeling of Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Targets in Mammalian Cells*. <i>Journal of Biological Chemistry</i> , 2012, 287, 2296-2307.	1.6	150
14	Dysregulation of lysosomal morphology by pathogenic LRRK2 is corrected by two-pore channel 2 inhibition. <i>Journal of Cell Science</i> , 2015, 128, 232-8.	1.2	148
15	Role of NAADP and cADPR in the Induction and Maintenance of Agonist-Evoked Ca ²⁺ Spiking in Mouse Pancreatic Acinar Cells. <i>Current Biology</i> , 2005, 15, 874-878.	1.8	137
16	Function and dysfunction of two-pore channels. <i>Science Signaling</i> , 2015, 8, re7.	1.6	135
17	Decorin Activates the Epidermal Growth Factor Receptor and Elevates Cytosolic Ca ²⁺ in A431 Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 3121-3124.	1.6	120
18	An Ancestral Deuterostome Family of Two-pore Channels Mediates Nicotinic Acid Adenine Dinucleotide Phosphate-dependent Calcium Release from Acidic Organelles. <i>Journal of Biological Chemistry</i> , 2010, 285, 2897-2901.	1.6	112

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19	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Regulates Autophagy in Cultured Astrocytes. <i>Journal of Biological Chemistry</i> , 2011, 286, 27875-27881.	1.6	109
20	The Two-pore channel (TPC) interactome unmasks isoform-specific roles for TPCs in endolysosomal morphology and cell pigmentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13087-13092.	3.3	109
21	Agonist-mediated switching of ion selectivity in TPC2 differentially promotes lysosomal function. <i>ELife</i> , 2020, 9, .	2.8	108
22	An Endosomal NAADP-Sensitive Two-Pore Ca ²⁺ Channel Regulates ER-Endosome Membrane Contact Sites to Control Growth Factor Signaling. <i>Cell Reports</i> , 2017, 18, 1636-1645.	2.9	105
23	Remodeling of secretory lysosomes during education tunes functional potential in NK cells. <i>Nature Communications</i> , 2019, 10, 514.	5.8	103
24	Nicotinic Acid Adenine Dinucleotide Phosphate Potentiates Neurite Outgrowth. <i>Journal of Biological Chemistry</i> , 2005, 280, 5646-5650.	1.6	101
25	Two-pore channels provide insight into the evolution of voltage-gated Ca ²⁺ and Na ⁺ channels. <i>Science Signaling</i> , 2014, 7, ra109.	1.6	98
26	Calcium signaling at ER membrane contact sites. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2012-2017.	1.9	94
27	Messenger-specific Role for Nicotinic Acid Adenine Dinucleotide Phosphate in Neuronal Differentiation. <i>Journal of Biological Chemistry</i> , 2006, 281, 15923-15928.	1.6	92
28	Transient Receptor Potential Mucolipin 1 (TRPML1) and Two-pore Channels Are Functionally Independent Organellar Ion Channels. <i>Journal of Biological Chemistry</i> , 2011, 286, 22934-22942.	1.6	91
29	Ca ²⁺ /H ⁺ exchange by acidic organelles regulates cell migration in vivo. <i>Journal of Cell Biology</i> , 2016, 212, 803-813.	2.3	91
30	Two-pore channels: Regulation by NAADP and customized roles in triggering calcium signals. <i>Cell Calcium</i> , 2010, 47, 480-490.	1.1	86
31	Evolution of acidic Ca ²⁺ stores and their resident Ca ²⁺ -permeable channels. <i>Cell Calcium</i> , 2015, 57, 222-230.	1.1	74
32	Membrane Potential Regulates Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Dependence of the pH- and Ca ²⁺ -sensitive Organellar Two-pore Channel TPC1. <i>Journal of Biological Chemistry</i> , 2012, 287, 20407-20416.	1.6	71
33	Endoplasmic reticulum and lysosomal Ca ²⁺ stores are remodelled in GBA1-linked Parkinson disease patient fibroblasts. <i>Cell Calcium</i> , 2016, 59, 12-20.	1.1	71
34	Essential requirement for JPT2 in NAADP-evoked Ca ²⁺ signaling. <i>Science Signaling</i> , 2021, 14, .	1.6	69
35	Recruitment of NAADP-sensitive acidic Ca ²⁺ stores by glutamate. <i>Biochemical Journal</i> , 2009, 422, 503-512.	1.7	67
36	Cav2.3 channels contribute to dopaminergic neuron loss in a model of Parkinson's disease. <i>Nature Communications</i> , 2019, 10, 5094.	5.8	65

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37	Coupling acidic organelles with the ER through Ca ²⁺ microdomains at membrane contact sites. <i>Cell Calcium</i> , 2015, 58, 387-396.	1.1	64
38	Mining of Ebola virus entry inhibitors identifies approved drugs as two-pore channel pore blockers. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 1151-1161.	1.9	62
39	NAADP-induced calcium release in sea urchin eggs. <i>Biology of the Cell</i> , 2000, 92, 197-204.	0.7	61
40	Acidic Ca ²⁺ stores come to the fore. <i>Cell Calcium</i> , 2011, 50, 109-112.	1.1	61
41	The endo-lysosomal system as an NAADP-sensitive acidic Ca ²⁺ store: Role for the two-pore channels. <i>Cell Calcium</i> , 2011, 50, 157-167.	1.1	60
42	Widespread Distribution of Binding Sites for the Novel Ca ²⁺ -mobilizing Messenger, Nicotinic Acid Adenine Dinucleotide Phosphate, in the Brain. <i>Journal of Biological Chemistry</i> , 2000, 275, 36495-36497.	1.6	57
43	Acidic NAADP-sensitive Calcium Stores in the Endothelium. <i>Journal of Biological Chemistry</i> , 2010, 285, 37133-37137.	1.6	57
44	Membrane Topology of NAADP-sensitive Two-pore Channels and Their Regulation by N-linked Glycosylation. <i>Journal of Biological Chemistry</i> , 2011, 286, 9141-9149.	1.6	57
45	Endo-lysosomal TRP mucolipin-1 triggers global ER Ca ²⁺ release and Ca ²⁺ influx. <i>Journal of Cell Science</i> , 2016, 129, 3859-3867.	1.2	57
46	Coordination of calcium signalling by endothelial-derived nitric oxide in the intact liver. <i>Nature Cell Biology</i> , 1999, 1, 467-471.	4.6	56
47	Degeneration of an Intracellular Ion Channel in the Primate Lineage by Relaxation of Selective Constraints. <i>Molecular Biology and Evolution</i> , 2010, 27, 2352-2359.	3.5	56
48	A computational model of lysosome-ER Ca ²⁺ microdomains. <i>Journal of Cell Science</i> , 2014, 127, 2934-43.	1.2	56
49	Two-pore channels at the intersection of endolysosomal membrane traffic. <i>Biochemical Society Transactions</i> , 2015, 43, 434-441.	1.6	54
50	Insights into the early evolution of animal calcium signaling machinery: A unicellular point of view. <i>Cell Calcium</i> , 2015, 57, 166-173.	1.1	54
51	NAADP-mediated channel "chatter"™ in neurons of the rat medulla oblongata. <i>Biochemical Journal</i> , 2009, 419, 91-99.	1.7	53
52	Two-pore channels and disease. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1678-1686.	1.9	52
53	Unique kinetics of nicotinic acid adenine dinucleotide phosphate (NAADP) binding enhance the sensitivity of NAADP receptors for their ligand. <i>Biochemical Journal</i> , 2000, 352, 725-729.	1.7	51
54	Solubilization of Receptors for the Novel Ca ²⁺ -mobilizing Messenger, Nicotinic Acid Adenine Dinucleotide Phosphate. <i>Journal of Biological Chemistry</i> , 2002, 277, 43717-43723.	1.6	51

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55	NAD kinase controls animal NADP biosynthesis and is modulated via evolutionarily divergent calmodulin-dependent mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1386-1391.	3.3	49
56	Modulation of spontaneous transmitter release from the frog neuromuscular junction by interacting intracellular Ca ²⁺ stores: critical role for nicotinic acid-adenine dinucleotide phosphate (NAADP). <i>Biochemical Journal</i> , 2003, 373, 313-318.	1.7	46
57	Inhibition of NAADP signalling on reperfusion protects the heart by preventing lethal calcium oscillations via two-pore channel 1 and opening of the mitochondrial permeability transition pore. <i>Cardiovascular Research</i> , 2015, 108, 357-366.	1.8	44
58	Metabolism of the novel Ca ²⁺ -mobilizing messenger nicotinic acid-adenine dinucleotide phosphate via a 2- μ m-specific Ca ²⁺ -dependent phosphatase. <i>Biochemical Journal</i> , 2002, 365, 295-301.	1.7	43
59	NAADP-induced Ca ²⁺ Release - A new signalling pathway. <i>Biology of the Cell</i> , 2004, 96, 19-28.	0.7	43
60	Signalling at membrane contact sites: two membranes come together to handle second messengers. <i>Current Opinion in Cell Biology</i> , 2016, 39, 77-83.	2.6	40
61	Determination of cellular nicotinic acid-adenine dinucleotide phosphate (NAADP) levels. <i>Biochemical Journal</i> , 2004, 380, 449-454.	1.7	39
62	Modulation of NAADP (nicotinic acid-adenine dinucleotide phosphate) receptors by K ⁺ ions: evidence for multiple NAADP receptor conformations. <i>Biochemical Journal</i> , 2003, 375, 805-812.	1.7	37
63	Iron overload causes endolysosomal deficits modulated by NAADP-regulated 2-pore channels and RAB7A. <i>Autophagy</i> , 2016, 12, 1487-1506.	4.3	37
64	Carbon nanopipettes characterize calcium release pathways in breast cancer cells. <i>Nanotechnology</i> , 2008, 19, 325102.	1.3	35
65	Domain assembly of NAADP-gated two-pore channels. <i>Biochemical Journal</i> , 2012, 441, 317-323.	1.7	32
66	Triggering of Ca ²⁺ signals by NAADP-gated two-pore channels: a role for membrane contact sites?. <i>Biochemical Society Transactions</i> , 2012, 40, 153-157.	1.6	31
67	Molecular Characterization of a Novel Intracellular ADP-Ribosyl Cyclase. <i>PLoS ONE</i> , 2007, 2, e797.	1.1	29
68	Questioning Regulation of Two-Pore Channels by NAADP. <i>Messenger (Los Angeles, Calif: Print)</i> , 2013, 2, 113-119.	0.3	28
69	Molecular and Functional Characterization of Inositol Trisphosphate Receptors during Early Zebrafish Development*. <i>Journal of Biological Chemistry</i> , 2007, 282, 13984-13993.	1.6	26
70	In with the TRP Channels: Intracellular Functions for TRPM1 and TRPM2. <i>Science Signaling</i> , 2009, 2, pe69.	1.6	26
71	A link between LRRK2, autophagy and NAADP-mediated endolysosomal calcium signalling. <i>Biochemical Society Transactions</i> , 2012, 40, 1140-1146.	1.6	26
72	NAADP on Target. <i>Advances in Experimental Medicine and Biology</i> , 2012, 740, 325-347.	0.8	26

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73	The N-terminal region of two-pore channel 1 regulates trafficking and activation by NAADP. <i>Biochemical Journal</i> , 2013, 453, 147-151.	1.7	26
74	Deviant Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP)-mediated Ca ²⁺ Signaling upon Lysosome Proliferation. <i>Journal of Biological Chemistry</i> , 2010, 285, 13321-13325.	1.6	24
75	The intracellular Ca ²⁺ channels of membrane traffic. <i>Channels</i> , 2012, 6, 344-351.	1.5	24
76	The Molecular Basis for Ca ²⁺ Signalling by NAADP: Two-Pore Channels in a Complex?. <i>Messenger (Los Angeles, Calif: Print)</i> , 2012, 1, 63-76.	0.3	22
77	NAADP-evoked Ca ²⁺ signals through two-pore channel-1 require arginine residues in the first S4-S5 linker. <i>Cell Calcium</i> , 2017, 68, 1-4.	1.1	20
78	Unique kinetics of nicotinic acid adenine dinucleotide phosphate (NAADP) binding enhance the sensitivity of NAADP receptors for their ligand. <i>Biochemical Journal</i> , 2000, 352, 725.	1.7	19
79	Two-pore channels as master regulators of membrane trafficking and endocytic well-being. <i>Current Opinion in Physiology</i> , 2020, 17, 163-168.	0.9	19
80	A plastid two-pore channel essential for inter-organelle communication and growth of <i>Toxoplasma gondii</i> . <i>Nature Communications</i> , 2021, 12, 5802.	5.8	19
81	Two-pore Channels Enter the Atomic Era: Structure of Plant TPC Revealed. <i>Trends in Biochemical Sciences</i> , 2016, 41, 475-477.	3.7	18
82	Calcium Deregulation: Novel Insights to Understand Friedreich's Ataxia Pathophysiology. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 264.	1.8	18
83	Does lysosomal rupture evoke Ca ²⁺ release? A question of pores and stores. <i>Cell Calcium</i> , 2020, 86, 102139.	1.1	18
84	Methods for monitoring lysosomal morphology. <i>Methods in Cell Biology</i> , 2015, 126, 1-19.	0.5	17
85	Targeting Mitochondria for Neuroprotection in Parkinson Disease. <i>JAMA Neurology</i> , 2014, 71, 537.	4.5	16
86	NAADP-sensitive two-pore channels are present and functional in gastric smooth muscle cells. <i>Cell Calcium</i> , 2014, 56, 51-58.	1.1	16
87	Kinetic Analysis of Inositol Trisphosphate Binding to Pure Inositol Trisphosphate Receptors Using Scintillation Proximity Assay. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 821-825.	1.0	15
88	Molecular characterization of a novel cell surface ADP-ribosyl cyclase from the sea urchin. <i>Cellular Signalling</i> , 2008, 20, 2347-2355.	1.7	15
89	NAADP-binding proteins find their identity. <i>Trends in Biochemical Sciences</i> , 2022, 47, 235-249.	3.7	15
90	The lysosomotropic GPN mobilises Ca ²⁺ from acidic organelles. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	14

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91	NAADP on the up in pancreatic beta cells? a sweet message?. <i>BioEssays</i> , 2003, 25, 430-433.	1.2	13
92	Discovery of lipophilic two-pore channel agonists. <i>FEBS Journal</i> , 2020, 287, 5284-5293.	2.2	13
93	TRP Channels as Interior Designers: Remodeling the Endolysosomal Compartment in Natural Killer Cells. <i>Frontiers in Immunology</i> , 2020, 11, 753.	2.2	13
94	Time sensing by NAADP receptors. <i>Biochemical Journal</i> , 2006, 397, 313-320.	1.7	12
95	A Single Residue in a Novel ADP-ribosyl Cyclase Controls Production of the Calcium-mobilizing Messengers Cyclic ADP-ribose and Nicotinic Acid Adenine Dinucleotide Phosphate. <i>Journal of Biological Chemistry</i> , 2010, 285, 19900-19909.	1.6	11
96	Activation of endo-lysosomal two-pore channels by NAADP and PI(3,5)P2. Five things to know.. <i>Cell Calcium</i> , 2022, 103, 102543.	1.1	10
97	NAADP binding to its target protein in sea urchin eggs requires phospholipids. <i>Biochemical Journal</i> , 2005, 386, 497-504.	1.7	9
98	Isolated pores dissected from human two-pore channel 2 are functional. <i>Scientific Reports</i> , 2016, 6, 38426.	1.6	9
99	Two-pore channels open up. <i>Nature</i> , 2018, 556, 38-40.	13.7	9
100	Getting close. Lysosome-ER contact sites tailor Ca ²⁺ signals. <i>Cell Calcium</i> , 2019, 80, 194-196.	1.1	9
101	Inducible Nitric-oxide Synthase Attenuates Vasopressin-dependent Ca ²⁺ Signaling in Rat Hepatocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 33776-33782.	1.6	8
102	Deviant Lysosomal Ca ²⁺ Signalling in Neurodegeneration. An Introduction. <i>Messenger (Los Angeles)</i> , 2015, 4, 46-52.	0.3	6
103	A "mix-and-match" approach to designing Ca ²⁺ microdomains at membrane-contact sites. <i>Communicative and Integrative Biology</i> , 2014, 7, e29586.	0.6	5
104	Poring Over Two-Pore Channel Pore Mutants. <i>Messenger (Los Angeles, Calif: Print)</i> , 2015, 4, 46-52.	0.3	5
105	TPC1 Knockout Knocks Out TPC1. <i>Molecular and Cellular Biology</i> , 2015, 35, 1882-1883.	1.1	5
106	The Signaling Protein CD38 Is Essential for Early Embryonic Development. <i>Journal of Biological Chemistry</i> , 2012, 287, 6974-6978.	1.6	4
107	Teaming with NAADP. <i>Science Signaling</i> , 2021, 14, .	1.6	4
108	Methods in Cyclic ADP-Ribose and NAADP Research. , 2005, , 265-334.		4

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109	Probing Ca ²⁺ release mechanisms using sea urchin egg homogenates. <i>Methods in Cell Biology</i> , 2019, 151, 445-458.	0.5	3
110	NAADP receptors: A one-two.. <i>Cell Calcium</i> , 2021, 100, 102478.	1.1	3
111	Measuring Single-Cell Cytosolic Ca ²⁺ Concentration in Response to Proteoglycans. , 2001, 171, 435-448.		2
112	ADP-Ribosyl Cyclases Regulate Early Development of the Sea Urchin. <i>Messenger (Los Angeles, Calif: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.3	2
113	Ins and outs of Ca ²⁺ transport by acidic organelles and cell migration. <i>Communicative and Integrative Biology</i> , 2018, 11, e1331800.	0.6	2
114	Preventing a shock to the system. Two-pore channel 1 negatively regulates anaphylaxis. <i>Cell Calcium</i> , 2020, 92, 102289.	1.1	2
115	Spatial and Temporal Control of Calcium Signaling by NAADP. , 2002, , 199-215.		2
116	The secret life of calcium in cell signaling. <i>Biochemist</i> , 2019, 41, 34-37.	0.2	2
117	Thinking through acidic Ca ²⁺ stores. <i>Science Signaling</i> , 2018, 11, .	1.6	1
118	<i>A Special Issue of Messenger</i> 2016. <i>Messenger (Los Angeles, Calif: Print)</i> , 2016, 5, 1-2.	0.3	0
119	Deviant lysosomal K ⁺ fluxes and Parkinsonâ€™s. A calci-centric point of view. <i>Cell Calcium</i> , 2021, 97, 102418.	1.1	0
120	Measuring Single Cell and Subcellular Ca ²⁺ Signals. , 2005, , 387-416.		0
121	Ca ²⁺ /H ⁺ exchange by acidic organelles regulates cell migration in vivo. <i>Journal of Experimental Medicine</i> , 2016, 213, 2134OIA28.	4.2	0
122	Plant and animal two-pore channels. , 2022, , 247-267.		0