

# Reinhold Penner

## List of Publications by Year in descending order

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94  
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15,448  
citations

26610

56  
h-index

42364

92  
g-index

96  
all docs

96  
docs citations

96  
times ranked

8822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Depletion of intracellular calcium stores activates a calcium current in mast cells. <i>Nature</i> , 1992, 355, 353-356.	13.7	1,696
2	LTRPC7 is a Mg <sup>2+</sup> -ATP-regulated divalent cation channel required for cell viability. <i>Nature</i> , 2001, 411, 590-595.	13.7	855
3	ADP-ribose gating of the calcium-permeable LTRPC2 channel revealed by Nudix motif homology. <i>Nature</i> , 2001, 411, 595-599.	13.7	815
4	Regulation of Vertebrate Cellular Mg <sup>2+</sup> Homeostasis by TRPM7. <i>Cell</i> , 2003, 114, 191-200.	13.5	674
5	TRPM4 Is a Ca <sup>2+</sup> -Activated Nonselective Cation Channel Mediating Cell Membrane Depolarization. <i>Cell</i> , 2002, 109, 397-407.	13.5	655
6	A Unified Nomenclature for the Superfamily of TRP Cation Channels. <i>Molecular Cell</i> , 2002, 9, 229-231.	4.5	620
7	Amplification of CRAC current by STIM1 and CRACM1 (Orai1). <i>Nature Cell Biology</i> , 2006, 8, 771-773.	4.6	536
8	TRPM2-mediated Ca <sup>2+</sup> influx induces chemokine production in monocytes that aggravates inflammatory neutrophil infiltration. <i>Nature Medicine</i> , 2008, 14, 738-747.	15.2	526
9	CRACM1 Multimers Form the Ion-Selective Pore of the CRAC Channel. <i>Current Biology</i> , 2006, 16, 2073-2079.	1.8	516
10	Regulation of calcium influx by second messengers in rat mast cells. <i>Nature</i> , 1988, 334, 499-504.	13.7	510
11	TRPM7 Provides an Ion Channel Mechanism for Cellular Entry of Trace Metal Ions. <i>Journal of General Physiology</i> , 2003, 121, 49-60.	0.9	462
12	CRACM1, CRACM2, and CRACM3 Are Store-Operated Ca <sup>2+</sup> Channels with Distinct Functional Properties. <i>Current Biology</i> , 2007, 17, 794-800.	1.8	353
13	TRPM5 is a transient Ca <sup>2+</sup> -activated cation channel responding to rapid changes in [Ca <sup>2+</sup> ] <sub>i</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15166-15171.	3.3	329
14	TRPM4 Regulates Calcium Oscillations After T Cell Activation. <i>Science</i> , 2004, 306, 1374-1377.	6.0	295
15	Cyclic ADP-Ribose and Hydrogen Peroxide Synergize with ADP-Ribose in the Activation of TRPM2 Channels. <i>Molecular Cell</i> , 2005, 18, 61-69.	4.5	284
16	The TRPM ion channel subfamily: molecular, biophysical and functional features. <i>Trends in Pharmacological Sciences</i> , 2004, 25, 633-639.	4.0	261
17	TRPM2 Functions as a Lysosomal Ca <sup>2+</sup> -Release Channel in $\hat{1}^2$ Cells. <i>Science Signaling</i> , 2009, 2, ra23.	1.6	253
18	The Store-Operated Calcium Current ICRAC: Nonlinear Activation by InsP <sub>3</sub> and Dissociation from Calcium Release. <i>Cell</i> , 1997, 89, 973-980.	13.5	232

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19	TRPM2: a multifunctional ion channel for calcium signalling. <i>Journal of Physiology</i> , 2011, 589, 1515-1525.	1.3	219
20	CaT1 and the Calcium Release-activated Calcium Channel Manifest Distinct Pore Properties. <i>Journal of Biological Chemistry</i> , 2001, 276, 47767-47770.	1.6	212
21	Transient Receptor Potential 1 Regulates Capacitative Ca <sup>2+</sup> Entry and Ca <sup>2+</sup> Release from Endoplasmic Reticulum in B Lymphocytes. <i>Journal of Experimental Medicine</i> , 2002, 195, 673-681.	4.2	193
22	Intracellularly injected tetanus toxin inhibits exocytosis in bovine adrenal chromaffin cells. <i>Nature</i> , 1986, 324, 76-78.	13.7	183
23	2-Aminoethoxydiphenyl borate directly facilitates and indirectly inhibits STIM1-dependent gating of CRAC channels. <i>Journal of Physiology</i> , 2008, 586, 3061-3073.	1.3	177
24	TRPM7 Channel Is Regulated by Magnesium Nucleotides via its Kinase Domain. <i>Journal of General Physiology</i> , 2006, 127, 421-434.	0.9	171
25	TRPM4 controls insulin secretion in pancreatic $\beta$ -cells. <i>Cell Calcium</i> , 2007, 41, 51-61.	1.1	171
26	Receptor-mediated regulation of the TRPM7 channel through its endogenous protein kinase domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6009-6014.	3.3	170
27	Dissociation of the store-operated calcium current (CRAC) and the Mg <sup>2+</sup> -nucleotide-regulated metal ion current MagNum. <i>Journal of Physiology</i> , 2002, 539, 445-458.	1.3	163
28	Calcium influx and its control by calcium release. <i>Current Opinion in Neurobiology</i> , 1993, 3, 368-374.	2.0	160
29	Nicotinic acid adenine dinucleotide phosphate and cyclic ADP-ribose regulate TRPM2 channels in T lymphocytes. <i>FASEB Journal</i> , 2006, 20, 962-964.	0.2	160
30	Non-specific effects of calcium entry antagonists in mast cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1994, 428, 433-438.	1.3	154
31	Two different presynaptic calcium currents in mouse motor nerve terminals. <i>Pflügers Archiv European Journal of Physiology</i> , 1986, 406, 190-197.	1.3	141
32	STIM2 protein mediates distinct store-dependent and store-independent modes of CRAC channel activation. <i>FASEB Journal</i> , 2008, 22, 752-761.	0.2	140
33	A Pyrazole Derivative Potently Inhibits Lymphocyte Ca <sup>2+</sup> Influx and Cytokine Production by Facilitating Transient Receptor Potential Melastatin 4 Channel Activity. <i>Molecular Pharmacology</i> , 2006, 69, 1413-1420.	1.0	139
34	Waixenicin A Inhibits Cell Proliferation through Magnesium-dependent Block of Transient Receptor Potential Melastatin 7 (TRPM7) Channels. <i>Journal of Biological Chemistry</i> , 2011, 286, 39328-39335.	1.6	124
35	Dendritic cell maturation and chemotaxis is regulated by TRPM2-mediated lysosomal Ca <sup>2+</sup> release. <i>FASEB Journal</i> , 2011, 25, 3529-3542.	0.2	123
36	Functional expression of the calcium release channel from skeletal muscle ryanodine receptor cDNA. <i>FEBS Letters</i> , 1989, 259, 217-221.	1.3	115

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37	Calcium Release-activated Calcium Current (I <sub>CRAC</sub> ) Is a Direct Target for Sphingosine. <i>Journal of Biological Chemistry</i> , 1998, 273, 25020-25030.	1.6	108
38	TRPM5 regulates glucose-stimulated insulin secretion. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 460, 69-76.	1.3	105
39	Regulation of TRPM2 by Extra- and Intracellular Calcium. <i>Journal of General Physiology</i> , 2007, 130, 427-440.	0.9	103
40	Synergistic regulation of endogenous TRPM2 channels by adenine dinucleotides in primary human neutrophils. <i>Cell Calcium</i> , 2008, 44, 604-615.	1.1	103
41	Discrimination of intracellular calcium store subcompartments using TRPV1 (transient receptor) Tj ETQq1 1 0.784314 rgBT /Overlock 10 371, 341-350.	1.7	102
42	Clofazimine Inhibits Human Kv1.3 Potassium Channel by Perturbing Calcium Oscillation in T Lymphocytes. <i>PLoS ONE</i> , 2008, 3, e4009.	1.1	101
43	InsP4 facilitates store-operated calcium influx by inhibition of InsP3 5-phosphatase. <i>Nature</i> , 2000, 408, 735-740.	13.7	99
44	The patch-clamp technique in the study of secretion. <i>Trends in Neurosciences</i> , 1989, 12, 159-163.	4.2	97
45	Distinct sites of action of clostridial neurotoxins revealed by double-poisoning of mouse motor nerve terminals. <i>Pflugers Archiv European Journal of Physiology</i> , 1987, 409, 533-539.	1.3	94
46	Two novel 2-aminoethyl diphenylborinate (2-APB) analogues differentially activate and inhibit store-operated Ca <sup>2+</sup> entry via STIM proteins. <i>Cell Calcium</i> , 2010, 47, 1-10.	1.1	90
47	The TRPM7 channel kinase regulates store-operated calcium entry. <i>Journal of Physiology</i> , 2017, 595, 3165-3180.	1.3	89
48	Orai3 silencing alters cell proliferation and cell cycle progression via c-myc pathway in breast cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 752-760.	1.9	88
49	A single lysine in the N-terminal region of store-operated channels is critical for STIM1-mediated gating. <i>Journal of General Physiology</i> , 2010, 136, 673-686.	0.9	86
50	Stimulation of Ca <sup>2+</sup> channel Orai1/STIM1 by serum and glucocorticoid-inducible kinase 1 (SGK1). <i>FASEB Journal</i> , 2011, 25, 2012-2021.	0.2	82
51	Cell cycle-dependent regulation of store-operated ICRAC and Mg <sup>2+</sup> -nucleotide-regulated MagNum (TRPM7) currents. <i>Cell Calcium</i> , 2007, 41, 249-260.	1.1	72
52	The calcium-permeable non-selective cation channel TRPM2 is modulated by cellular acidification. <i>Journal of Physiology</i> , 2010, 588, 1227-1240.	1.3	71
53	The TRPM6 Kinase Domain Determines the Mg <sup>2+</sup> -ATP Sensitivity of TRPM7/M6 Heteromeric Ion Channels. <i>Journal of Biological Chemistry</i> , 2014, 289, 5217-5227.	1.6	67
54	Activation of store-operated ICRAC by hydrogen peroxide. <i>Cell Calcium</i> , 2010, 48, 1-9.	1.1	66

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55	TRPM2. Handbook of Experimental Pharmacology, 2014, 222, 403-426.	0.9	62
56	Washout phenomena in dialyzed mast cells allow discrimination of different steps in stimulus-secretion coupling. Bioscience Reports, 1987, 7, 313-321.	1.1	59
57	STIM2 drives Ca <sup>2+</sup> oscillations through store-operated Ca <sup>2+</sup> entry caused by mild store depletion. Journal of Physiology, 2013, 591, 1433-1445.	1.3	57
58	Secretory responses of rat peritoneal mast cells to high intracellular calcium. FEBS Letters, 1988, 226, 307-313.	1.3	56
59	Multiple mechanisms of manganese-induced quenching of fura-2 fluorescence in rat mast cells. Pflugers Archiv European Journal of Physiology, 1993, 423, 225-231.	1.3	55
60	Ion Channels and Calcium Signaling in Mast Cells. Annals of the New York Academy of Sciences, 1993, 707, 198-209.	1.8	53
61	Lipopolysaccharide-induced down-regulation of Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> currents ( <i>CRAC</i> ) but not Ca <sup>2+</sup> -activated TRPM4-like currents ( <i>CAN</i> ) in cultured mouse microglial cells. Journal of Physiology, 2008, 586, 427-439.	1.3	47
62	The Role of TRPC1 in Modulating Cancer Progression. Cells, 2020, 9, 388.	1.8	47
63	Regulation of endogenous and heterologous Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> currents by pH. Cell Calcium, 2014, 56, 235-243.	1.1	45
64	Near-visible ultraviolet light induces a novel ubiquitous calcium-permeable cation current in mammalian cell lines. Journal of Physiology, 1998, 507, 365-377.	1.3	44
65	Human CNNM2 is not a Mg <sup>2+</sup> transporter per se. Pflugers Archiv European Journal of Physiology, 2016, 468, 1223-1240.	1.3	38
66	Mice sans synaptotagmin. Nature, 1994, 372, 316-317.	13.7	35
67	TRPM7 kinase activity regulates murine mast cell degranulation. Journal of Physiology, 2016, 594, 2957-2970.	1.3	34
68	Acceleration of Membrane Recycling by Axotomy of Cultured Aplysia Neurons. Neuron, 1996, 16, 641-651.	3.8	31
69	TRPM7 is regulated by halides through its kinase domain. Cellular and Molecular Life Sciences, 2013, 70, 2757-2771.	2.4	29
70	N-Myc-induced up-regulation of TRPM6/TRPM7 channels promotes neuroblastoma cell proliferation. Oncotarget, 2014, 5, 7625-7634.	0.8	29
71	Lack of direct evidence for a functional role of voltage-operated calcium channels in juxtaglomerular cells. Pflugers Archiv European Journal of Physiology, 1990, 416, 281-287.	1.3	26
72	Inhibition of TRPM7 suppresses cell proliferation of colon adenocarcinoma in vitro and induces hypomagnesemia in vivo without affecting azoxymethane-induced early colon cancer in mice. Cell Communication and Signaling, 2017, 15, 30.	2.7	25

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73	Ca <sup>2+</sup> -induced Ca <sup>2+</sup> Release in Chinese Hamster Ovary (CHO) Cells Co-expressing Dihydropyridine and Ryanodine Receptors. <i>Journal of General Physiology</i> , 1997, 109, 619-631.	0.9	23
74	Development and Optimization of a High-Throughput Bioassay for TRPM7 Ion Channel Inhibitors. <i>Journal of Biomolecular Screening</i> , 2010, 15, 498-507.	2.6	23
75	State-dependent blocking mechanism of K <sub>v</sub> 1.3 channels by the antimycobacterial drug clofazimine. <i>British Journal of Pharmacology</i> , 2015, 172, 5161-5173.	2.7	19
76	Areca nut extracts mobilize calcium and release pro-inflammatory cytokines from various immune cells. <i>Scientific Reports</i> , 2018, 8, 1075.	1.6	19
77	Store-Operated Calcium Entry: A Tough Nut to CRAC. <i>Science Signaling</i> , 2004, 2004, pe38-pe38.	1.6	18
78	IP3 receptor subtype-dependent activation of store-operated calcium entry through ICRAC. <i>Cell Calcium</i> , 2009, 45, 326-330.	1.1	18
79	The coiled-coil domain of zebrafish TRPM7 regulates Mg <sup>2+</sup> -nucleotide sensitivity. <i>Scientific Reports</i> , 2016, 6, 33459.	1.6	18
80	Scalaradial Is a Potent Inhibitor of Transient Receptor Potential Melastatin 2 (TRPM2) Ion Channels. <i>Journal of Natural Products</i> , 2017, 80, 2741-2750.	1.5	17
81	Pharmacology of JNJ-28583113: A novel TRPM2 antagonist. <i>European Journal of Pharmacology</i> , 2019, 853, 299-307.	1.7	16
82	TRPM2 channels are not required for acute airway inflammation in OVA-induced severe allergic asthma in mice. <i>Journal of Inflammation</i> , 2013, 10, 19.	1.5	15
83	TRPM7 contributes to progressive nephropathy. <i>Scientific Reports</i> , 2020, 10, 2333.	1.6	15
84	Emerging roles of TRPM channels. <i>Novartis Foundation Symposium</i> , 2004, 258, 248-58; discussion 258-66.	1.2	12
85	Emerging Roles of TRPM Channels. <i>Novartis Foundation Symposium</i> , 2008, , 248-262.	1.2	11
86	Small-Conductance Ca <sup>2+</sup> -Activated Potassium Type 2 Channels Regulate the Formation of Contextual Fear Memory. <i>PLoS ONE</i> , 2015, 10, e0127264.	1.1	8
87	Differential modulation of voltage-dependent Ca <sup>2+</sup> currents by EGTA and BAPTA in bovine adrenal chromaffin cells. <i>Pflügers Archiv European Journal of Physiology</i> , 1999, 439, 27-38.	1.3	6
88	d-6-Deoxy-myo-inositol 1,3,4,5-tetrakisphosphate, a mimic of d-myo-inositol 1,3,4,5-tetrakisphosphate: biological activity and pH-dependent conformational properties. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 1262-1270.	1.0	6
89	The TRPM7 kinase limits receptor-induced calcium release by regulating heterotrimeric G-proteins. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3069-3078.	2.4	6
90	Transient Receptor Potential C 1/4/5 Is a Determinant of MTI-101 Induced Calcium Influx and Cell Death in Multiple Myeloma. <i>Cells</i> , 2021, 10, 1490.	1.8	4

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91	Acidic Cannabinoids Suppress Proinflammatory Cytokine Release by Blocking Store-operated Calcium Entry. <i>Function</i> , 2022, 3, .	1.1	4
92	Role of ICRCAC in the Regulation of Secretion. , 1999, , 362-371.		2
93	Sex-dependent effect of aging on calcium signaling and expression of TRPM2 and CRAC channels in human neutrophils. <i>Human Immunology</i> , 2022, , .	1.2	1
94	A GTP Analogue Induces Calcium Release but Not Secretion in Rat Mast Cells. <i>International Archives of Allergy and Immunology</i> , 1991, 94, 74-75.	0.9	0