

# Christine Peinelt

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,886  
citations

304743

22  
h-index

289244

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplification of CRAC current by STIM1 and CRACM1 (Orai1). <i>Nature Cell Biology</i> , 2006, 8, 771-773.	10.3	536
2	CRACM1 Multimers Form the Ion-Selective Pore of the CRAC Channel. <i>Current Biology</i> , 2006, 16, 2073-2079.	3.9	516
3	CRACM1, CRACM2, and CRACM3 Are Store-Operated Ca <sup>2+</sup> Channels with Distinct Functional Properties. <i>Current Biology</i> , 2007, 17, 794-800.	3.9	353
4	Differential Redox Regulation of ORAI Ion Channels: A Mechanism to Tune Cellular Calcium Signaling. <i>Science Signaling</i> , 2010, 3, ra24.	3.6	214
5	2- <i>Aminoethoxydiphenyl borate</i> directly facilitates and indirectly inhibits STIM1-dependent gating of CRAC channels. <i>Journal of Physiology</i> , 2008, 586, 3061-3073.	2.9	177
6	STIM2 protein mediates distinct store-dependent and store-independent modes of CRAC channel activation. <i>FASEB Journal</i> , 2008, 22, 752-761.	0.5	140
7	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.	1.9	86
8	ORMDL3 modulates store-operated calcium entry and lymphocyte activation. <i>Human Molecular Genetics</i> , 2013, 22, 519-530.	2.9	81
9	Kinetics of the Ca <sup>2+</sup> , H <sup>+</sup> , and Mg <sup>2+</sup> Interaction with the Ion-Binding Sites of the SR Ca-ATPase. <i>Biophysical Journal</i> , 2002, 82, 170-181.	0.5	60
10	Mutations of the Ca <sup>2+</sup> -sensing Stromal Interaction Molecule STIM1 Regulate Ca <sup>2+</sup> Influx by Altered Oligomerization of STIM1 and by Destabilization of the Ca <sup>2+</sup> Channel Orai1. <i>Journal of Biological Chemistry</i> , 2013, 288, 1653-1664.	3.4	60
11	Transient receptor potential melastatin 4 channel contributes to migration of androgen-insensitive prostate cancer cells. <i>Oncotarget</i> , 2015, 6, 41783-41793.	1.8	58
12	ORAI1 Ca <sup>2+</sup> Channels Control Endothelin-1-Induced Mitogenesis and Melanogenesis in Primary Human Melanocytes. <i>Journal of Investigative Dermatology</i> , 2012, 132, 1443-1451.	0.7	54
13	Identification of potent and selective small molecule inhibitors of the cation channel <i>TRPM4</i> . <i>British Journal of Pharmacology</i> , 2018, 175, 2504-2519.	5.4	47
14	Regulation of endogenous and heterologous Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> currents by pH. <i>Cell Calcium</i> , 2014, 56, 235-243.	2.4	45
15	ICRAC controls the rapid androgen response in human primary prostate epithelial cells and is altered in prostate cancer. <i>Oncotarget</i> , 2013, 4, 2096-2107.	1.8	43
16	TRP Channels in Digestive Tract Cancers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1877.	4.1	39
17	Differential Redox Regulation of Ca <sup>2+</sup> Signaling and Viability in Normal and Malignant Prostate Cells. <i>Biophysical Journal</i> , 2015, 109, 1410-1419.	0.5	36
18	TRPM4 is highly expressed in human colorectal tumor buds and contributes to proliferation, cell cycle, and invasion of colorectal cancer cells. <i>Molecular Oncology</i> , 2019, 13, 2393-2405.	4.6	32

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19	Cell type-specific glycosylation of Orai1 modulates store-operated Ca <sup>2+</sup> entry. <i>Science Signaling</i> , 2016, 9, ra25.	3.6	30
20	Pharmacology of ORAI channels as a tool to understand their physiological functions. <i>Expert Review of Clinical Pharmacology</i> , 2010, 3, 291-303.	3.1	29
21	Store-operated calcium entry in disease: Beyond STIM/Orai expression levels. <i>Seminars in Cell and Developmental Biology</i> , 2019, 94, 66-73.	5.0	26
22	Time-Resolved Charge Movements in the Sarcoplasmic Reticulum Ca-ATPase. <i>Biophysical Journal</i> , 2004, 86, 815-824.	0.5	25
23	TRPM4 in Cancer—A New Potential Drug Target. <i>Biomolecules</i> , 2021, 11, 229.	4.0	24
24	Synthesis and Pharmacological Characterization of 2-Aminoethyl Diphenylborinate (2-APB) Derivatives for Inhibition of Store-Operated Calcium Entry (SOCE) in MDA-MB-231 Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5604.	4.1	23
25	Kinetics of Ca <sup>2+</sup> Binding to the SR Ca-ATPase in the E1 State. <i>Biophysical Journal</i> , 2005, 89, 2427-2433.	0.5	19
26	IP3 receptor subtype-dependent activation of store-operated calcium entry through ICRAC. <i>Cell Calcium</i> , 2009, 45, 326-330.	2.4	18
27	Small Molecular Inhibitors Block TRPM4 Currents in Prostate Cancer Cells, with Limited Impact on Cancer Hallmark Functions. <i>Journal of Molecular Biology</i> , 2021, 433, 166665.	4.2	15
28	Store-Operated Ca <sup>2+</sup> Entry as a Prostate Cancer Biomarker — a Riddle with Perspectives. <i>Current Molecular Biology Reports</i> , 2017, 3, 208-217.	1.6	14
29	Regulation of Ca <sup>2+</sup> signaling in prostate cancer cells. <i>Channels</i> , 2016, 10, 170-171.	2.8	13
30	The Number and Position of Orai3 Units within Heteromeric Store-Operated Ca <sup>2+</sup> Channels Alter the Pharmacology of ICRAC. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2458.	4.1	13
31	Ca <sup>2+</sup> /Calmodulin Binding to STIM1 Hydrophobic Residues Facilitates Slow Ca <sup>2+</sup> -Dependent Inactivation of the Orai1 Channel. <i>Cellular Physiology and Biochemistry</i> , 2020, 54, 252-270.	1.6	13
32	The Minimal Requirements to Use Calcium Imaging to Analyze <i>ICRAC</i> . <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot073262.	0.3	9
33	Measuring Endogenous <i>ICRAC</i> and ORAI Currents with the Patch-Clamp Technique. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot073254.	0.3	7
34	Investigation of Novel Small Molecular TRPM4 Inhibitors in Colorectal Cancer Cells. <i>Cancers</i> , 2021, 13, 5400.	3.7	7
35	p53 alters intracellular Ca <sup>2+</sup> signaling through regulation of TRPM4. <i>Cell Calcium</i> , 2022, 104, 102591.	2.4	7
36	A Novel Role of the TRPM4 Ion Channel in Exocytosis. <i>Cells</i> , 2022, 11, 1793.	4.1	6

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37	Patch-Clamp Measurement of <i>CRAC</i> and ORAI Channel Activity. Cold Spring Harbor Protocols, 2014, 2014, pdb.top066795.	0.3	4
38	The name tells the story: Two-pore channels. Cell Calcium, 2020, 89, 102215.	2.4	3
39	Time-Resolved Partial Reactions of the SR Ca-ATPase Investigated with a Fluorescent Styryl Dye. Annals of the New York Academy of Sciences, 2003, 986, 325-326.	3.8	2
40	Discovery of novel gating checkpoints in the Orai1 calcium channel by systematic analysis of constitutively active mutants of its paralogs and orthologs. Cell Calcium, 2022, 105, 102616.	2.4	2