

# Christoph Romanin

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8979403/christoph-romanin-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

141  
papers

7,163  
citations

48  
h-index

79  
g-index

162  
ext. papers

7,877  
ext. citations

5.4  
avg, IF

5.41  
L-index

#	Paper	IF	Citations
141	Dynamic coupling of the putative coiled-coil domain of ORAI1 with STIM1 mediates ORAI1 channel activation. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 8014-22	5.4	335
140	A Cytosolic Homomerization and a Modulatory Domain within STIM1 C Terminus Determine Coupling to ORAI1 Channels. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 8421-6	5.4	264
139	Coassembly of Trp1 and Trp3 proteins generates diacylglycerol- and Ca <sup>2+</sup> -sensitive cation channels. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 27799-805	5.4	247
138	Proliferation of aligned mammalian cells on laser-nanostructured polystyrene. <i>Biomaterials</i> , <b>2008</b> , 29, 1796-806	15.6	195
137	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. <i>EMBO Journal</i> , <b>2011</b> , 30, 1678-89	13	183
136	Simple test system for single molecule recognition force microscopy. <i>Analytica Chimica Acta</i> , <b>2003</b> , 479, 59-75	6.6	174
135	TRPC3 and TRPC4 associate to form a redox-sensitive cation channel. Evidence for expression of native TRPC3-TRPC4 heteromeric channels in endothelial cells. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 13588-13595	5.4	171
134	Single-molecule imaging of l-type Ca(2+) channels in live cells. <i>Biophysical Journal</i> , <b>2001</b> , 81, 2639-46	2.9	167
133	STIM1/Orai1 coiled-coil interplay in the regulation of store-operated calcium entry. <i>Nature Communications</i> , <b>2013</b> , 4, 2963	17.4	152
132	Orai1 contributes to the establishment of an apoptosis-resistant phenotype in prostate cancer cells. <i>Cell Death and Disease</i> , <b>2010</b> , 1, e75	9.8	144
131	Ca(2+) signaling by TRPC3 involves Na(+) entry and local coupling to the Na(+)/Ca(2+) exchanger. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 13696-704	5.4	144
130	Trp proteins form store-operated cation channels in human vascular endothelial cells. <i>FEBS Letters</i> , <b>1998</b> , 437, 101-6	3.8	132
129	Novel pyrazole compounds for pharmacological discrimination between receptor-operated and store-operated Ca(2+) entry pathways. <i>British Journal of Pharmacology</i> , <b>2012</b> , 167, 1712-22	8.6	129
128	Molecular determinants of the coupling between STIM1 and Orai channels: differential activation of Orai1-3 channels by a STIM1 coiled-coil mutant. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 21696-706	5.4	124
127	2-aminoethoxydiphenyl borate alters selectivity of Orai3 channels by increasing their pore size. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 20261-7	5.4	124
126	C-terminal modulator controls Ca <sup>2+</sup> -dependent gating of Ca(v)1.4 L-type Ca <sup>2+</sup> channels. <i>Nature Neuroscience</i> , <b>2006</b> , 9, 1108-16	25.5	118
125	Auto-inhibitory role of the EF-SAM domain of STIM proteins in store-operated calcium entry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 1337-42	11.5	108

124	Modulation of voltage- and Ca <sup>2+</sup> -dependent gating of CaV1.3 L-type calcium channels by alternative splicing of a C-terminal regulatory domain. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 20733-44	5.4	105
123	A Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> (CRAC) modulatory domain (CMD) within STIM1 mediates fast Ca <sup>2+</sup> -dependent inactivation of ORAI1 channels. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 24933-8	5.4	104
122	Store-independent Orai1/3 channels activated by intracrine leukotriene C4: role in neointimal hyperplasia. <i>Circulation Research</i> , <b>2013</b> , 112, 1013-25	15.7	93
121	The action of selective CRAC channel blockers is affected by the Orai pore geometry. <i>Cell Calcium</i> , <b>2013</b> , 53, 139-51	4	92
120	Dynamic but not constitutive association of calmodulin with rat TRPV6 channels enables fine tuning of Ca <sup>2+</sup> -dependent inactivation. <i>Journal of Physiology</i> , <b>2006</b> , 577, 31-44	3.9	92
119	Mechanistic view on domains mediating STIM1-Orai coupling. <i>Immunological Reviews</i> , <b>2009</b> , 231, 99-112	11.3	91
118	A coiled-coil clamp controls both conformation and clustering of stromal interaction molecule 1 (STIM1). <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 33231-44	5.4	85
117	The extended transmembrane Orai1 N-terminal (ETON) region combines binding interface and gate for Orai1 activation by STIM1. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 29025-34	5.4	85
116	Resting state Orai1 diffuses as homotetramer in the plasma membrane of live mammalian cells. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 41135-42	5.4	85
115	Molecular mechanisms of STIM/Orai communication. <i>American Journal of Physiology - Cell Physiology</i> , <b>2016</b> , 310, C643-62	5.4	84
114	The STIM/Orai coupling machinery. <i>Channels</i> , <b>2008</b> , 2, 261-8	3	83
113	Intracellular Ca <sup>2+</sup> inhibits smooth muscle L-type Ca <sup>2+</sup> channels by activation of protein phosphatase type 2B and by direct interaction with the channel. <i>Journal of General Physiology</i> , <b>1997</b> , 110, 503-13	3.4	76
112	Heterobifunctional crosslinkers for tethering single ligand molecules to scanning probes. <i>Analytica Chimica Acta</i> , <b>2003</b> , 497, 101-114	6.6	74
111	Store depletion-activated CaT1 currents in rat basophilic leukemia mast cells are inhibited by 2-aminoethoxydiphenyl borate. Evidence for a regulatory component that controls activation of both CaT1 and CRAC (Ca <sup>2+</sup> release-activated Ca <sup>2+</sup> channel) channels. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 21273-8	5.4	74
110	TRPV6 calcium channel translocates to the plasma membrane via Orai1-mediated mechanism and controls cancer cell survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E3870-9	11.5	73
109	Phospholipase C-dependent control of cardiac calcium homeostasis involves a TRPC3-NCX1 signaling complex. <i>Cardiovascular Research</i> , <b>2007</b> , 73, 111-9	9.9	73
108	Adhesion and proliferation of human endothelial cells on photochemically modified polytetrafluoroethylene. <i>Biomaterials</i> , <b>2003</b> , 24, 5139-44	15.6	68
107	Ca <sup>2+</sup> sensors of L-type Ca <sup>2+</sup> channel. <i>FEBS Letters</i> , <b>2000</b> , 487, 301-6	3.8	68

106	Mrs2p forms a high conductance Mg <sup>2+</sup> selective channel in mitochondria. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3872-83	2.9	67
105	PKC-dependent coupling of calcium permeation through transient receptor potential canonical 3 (TRPC3) to calcineurin signaling in HL-1 myocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10556-61	11.5	66
104	Increased hydrophobicity at the N terminus/membrane interface impairs gating of the severe combined immunodeficiency-related Orai1 mutant. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 15903-15910	5.4	64
103	Cholesterol modulates Orai1 channel function. <i>Science Signaling</i> , <b>2016</b> , 9, ra10	8.8	62
102	Cell microarrays on photochemically modified polytetrafluoroethylene. <i>Biomaterials</i> , <b>2005</b> , 26, 5572-80	15.6	58
101	Complex role of STIM1 in the activation of store-independent Orai1/3 channels. <i>Journal of General Physiology</i> , <b>2014</b> , 143, 345-59	3.4	57
100	Plasticity in Ca <sup>2+</sup> selectivity of Orai1/Orai3 heteromeric channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 19623-8	11.5	57
99	Cytosolic Ca <sup>2+</sup> prevents the subplasmalemmal clustering of STIM1: an intrinsic mechanism to avoid Ca <sup>2+</sup> overload. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 3133-9	5.3	56
98	Transmembrane helix connectivity in Orai1 controls two gates for calcium-dependent transcription. <i>Science Signaling</i> , <b>2017</b> , 10,	8.8	53
97	Calpastatin and nucleotides stabilize cardiac calcium channel activity in excised patches. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1991</b> , 418, 86-92	4.6	53
96	S-nitrosation controls gating and conductance of the alpha 1 subunit of class C L-type Ca(2+) channels. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 14797-803	5.4	50
95	An optically controlled probe identifies lipid-gating fenestrations within the TRPC3 channel. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 396-404	11.7	49
94	Ca(2+) release-activated Ca(2+) (CRAC) current, structure, and function. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 4163-76	10.3	48
93	Cell adhesion on polytetrafluoroethylene modified by UV-irradiation in an ammonia atmosphere. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2003</b> , 67, 130-7	5.4	47
92	Na(+) entry and modulation of Na(+)/Ca(2+) exchange as a key mechanism of TRPC signaling. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2005</b> , 451, 99-104	4.6	47
91	Missense mutation in immunodeficient patients shows the multifunctional roles of coiled-coil domain 3 (CC3) in STIM1 activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6206-11	11.5	45
90	Inhibition of a store-operated Ca <sup>2+</sup> entry pathway in human endothelial cells by the isoquinoline derivative LOE 908. <i>British Journal of Pharmacology</i> , <b>1996</b> , 119, 702-6	8.6	45
89	A calcium-accumulating region, CAR, in the channel Orai1 enhances Ca(2+) permeation and SOCE-induced gene transcription. <i>Science Signaling</i> , <b>2015</b> , 8, ra131	8.8	44

88	Mechanisms of STIM1 activation of store-independent leukotriene C4-regulated Ca <sup>2+</sup> channels. <i>Molecular and Cellular Biology</i> , <b>2013</b> , 33, 3715-23	4.8	44
87	Cellular cholesterol controls TRPC3 function: evidence from a novel dominant-negative knockdown strategy. <i>Biochemical Journal</i> , <b>2006</b> , 396, 147-55	3.8	44
86	Modulation of the smooth-muscle L-type Ca <sup>2+</sup> channel $\beta$ subunit ( $\beta$ C-b) by the $\alpha$ subunit: a peptide which inhibits binding of $\beta$ to the $\alpha$ linker of $\beta$ induces functional uncoupling. <i>Biochemical Journal</i> , <b>2000</b> , 348, 657-665	3.8	44
85	Membrane binding of beta2-glycoprotein I can be described by a two-state reaction model: an atomic force microscopy and surface plasmon resonance study. <i>Biochemical Journal</i> , <b>2005</b> , 389, 665-73	3.8	43
84	The dihydropyridine nifedipine inhibits T-type Ca <sup>2+</sup> currents in atrial myocytes. <i>Pflügers Archiv European Journal of Physiology</i> , <b>1992</b> , 420, 410-2	4.6	42
83	Cell-cell contact formation governs Ca <sup>2+</sup> signaling by TRPC4 in the vascular endothelium: evidence for a regulatory TRPC4-beta-catenin interaction. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 4213-4223	5.4	41
82	A type 2A phosphatase-sensitive phosphorylation site controls modal gating of L-type Ca <sup>2+</sup> channels in human vascular smooth-muscle cells. <i>Biochemical Journal</i> , <b>1996</b> , 318 ( Pt 2), 513-7	3.8	41
81	STIM1 activation of Orai1. <i>Cell Calcium</i> , <b>2019</b> , 77, 29-38	4	41
80	Cooperativeness of Orai cytosolic domains tunes subtype-specific gating. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 8577-8584	5.4	40
79	Canonical transient receptor potential (TRPC) 1 acts as a negative regulator for vanilloid TRPV6-mediated Ca <sup>2+</sup> influx. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 35612-35620	5.4	40
78	Intracellular Ca <sup>2+</sup> inactivates L-type Ca <sup>2+</sup> channels with a Hill coefficient of approximately 1 and an inhibition constant of approximately 4 $\mu$ M by reducing channel's open probability. <i>Biophysical Journal</i> , <b>1997</b> , 73, 1857-65	2.9	40
77	CaT1 knock-down strategies fail to affect CRAC channels in mucosal-type mast cells. <i>Journal of Physiology</i> , <b>2004</b> , 557, 121-32	3.9	39
76	Recent progress on STIM1 domains controlling Orai activation. <i>Cell Calcium</i> , <b>2009</b> , 46, 227-32	4	38
75	The STIM1/Orai signaling machinery. <i>Channels</i> , <b>2013</b> , 7, 330-43	3	36
74	Molecular determinants within N terminus of Orai3 protein that control channel activation and gating. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 31565-75	5.4	36
73	Tolerance to nitroglycerin is caused by reduced guanylate cyclase activation. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1989</b> , 21, 41-8	5.8	36
72	Nanopatterned polymer substrates promote endothelial proliferation by initiation of $\beta$ catenin transcriptional signaling. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2953-62	10.8	34
71	The first ankyrin-like repeat is the minimum indispensable key structure for functional assembly of homo- and heteromeric TRPC4/TRPC5 channels. <i>Cell Calcium</i> , <b>2008</b> , 43, 260-9	4	34

70	A dual mechanism promotes switching of the Stormorken STIM1 R304W mutant into the activated state. <i>Nature Communications</i> , <b>2018</b> , 9, 825	17.4	33
69	Voltage-gated rearrangements associated with differential beta-subunit modulation of the L-type Ca(2+) channel inactivation. <i>Biophysical Journal</i> , <b>2004</b> , 87, 844-57	2.9	31
68	Assembly domains in TRP channels. <i>Biochemical Society Transactions</i> , <b>2007</b> , 35, 84-5	5.1	30
67	Characterization and cytocompatibility of carbon layers prepared by photo-induced chemical vapor deposition. <i>Thin Solid Films</i> , <b>2007</b> , 515, 6765-6772	2.2	29
66	Oriented binding of the His6-tagged carboxyl-tail of the L-type Ca <sup>2+</sup> channel alpha1-subunit to a new NTA-functionalized self-assembled monolayer. <i>Langmuir</i> , <b>2004</b> , 20, 5885-90	4	29
65	Potent block of Cl <sup>-</sup> channels by antiallergic drugs. <i>Biochemical and Biophysical Research Communications</i> , <b>1992</b> , 188, 957-63	3.4	29
64	Structure, regulation and biophysics of I(CRAC), STIM/Orai1. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 740, 383-410	3.6	28
63	EUV micropatterning for biocompatibility control of PET. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 100, 511-516	2.6	28
62	Trypsin increases availability and open probability of cardiac L-type Ca <sup>2+</sup> channels without affecting inactivation induced by Ca <sup>2+</sup> . <i>Biophysical Journal</i> , <b>1995</b> , 69, 1847-57	2.9	28
61	Activity of cardiac L-type Ca <sup>2+</sup> channels is sensitive to cytoplasmic calcium. <i>Pflugers Archiv European Journal of Physiology</i> , <b>1992</b> , 421, 516-8	4.6	28
60	Communication between N terminus and loop2 tunes Orai activation. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 1271-1285	5.4	27
59	Molecular determinant for run-down of L-type Ca <sup>2+</sup> channels localized in the carboxyl terminus of the 1C subunit. <i>Journal of Physiology</i> , <b>2000</b> , 529 Pt 1, 119-30	3.9	27
58	Guanylate cyclase activation by organic nitrates is not mediated via nitrite. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1988</b> , 20, 389-96	5.8	27
57	Authentic CRAC channel activity requires STIM1 and the conserved portion of the Orai N terminus. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 1259-1270	5.4	26
56	CRAC inhibitors: identification and potential. <i>Expert Opinion on Drug Discovery</i> , <b>2008</b> , 3, 787-800	6.2	26
55	Crosstalk between voltage-independent Ca <sup>2+</sup> channels and L-type Ca <sup>2+</sup> channels in A7r5 vascular smooth muscle cells at elevated intracellular pH: evidence for functional coupling between L-type Ca <sup>2+</sup> channels and a 2-APB-sensitive cation channel. <i>Circulation Research</i> , <b>2003</b> , 92, 888-96	15.7	26
54	A sequence in the carboxy-terminus of the alpha(1C) subunit important for targeting, conductance and open probability of L-type Ca(2+) channels. <i>FEBS Letters</i> , <b>2000</b> , 477, 161-9	3.8	26
53	Expression of Trp3 determines sensitivity of capacitative Ca <sup>2+</sup> entry to nitric oxide and mitochondrial Ca <sup>2+</sup> handling: evidence for a role of Trp3 as a subunit of capacitative Ca <sup>2+</sup> entry channels. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 48149-58	5.4	26

52	A novel STIM1-Orai1 gating interface essential for CRAC channel activation. <i>Cell Calcium</i> , <b>2019</b> , 79, 57-674		25
51	UV surface modification of a new nanocomposite polymer to improve cytocompatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2007</b> , 18, 453-68	3.5	25
50	Identification of a rare subset of adipose tissue-resident progenitor cells, which express CD133 and TRPC3 as a VEGF-regulated Ca <sup>2+</sup> entry channel. <i>FEBS Letters</i> , <b>2008</b> , 582, 2696-702	3.8	24
49	Stabilitätsuntersuchungen an Bor-Stickstoff-Sauerstoff-Heterocyclen mittels <sup>11</sup> B-NMR-Spektroskopie. <i>Monatshefte für Chemie</i> , <b>1982</b> , 113, 1025-1035	1.4	24
48	Dynamics of Spreading and Alignment of Cells Cultured In Vitro on a Grooved Polymer Surface. <i>Journal of Nanomaterials</i> , <b>2011</b> , 2011, 1-10	3.2	23
47	Essential role of the beta subunit in modulation of C-class L-type Ca <sup>2+</sup> channels by intracellular pH. <i>FEBS Letters</i> , <b>1997</b> , 408, 75-80	3.8	23
46	Sequential activation of STIM1 links Ca with luminal domain unfolding. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	21
45	Electroporation chip for adherent cells on photochemically modified polymer surfaces. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 013901	3.4	20
44	Adhesion and proliferation of human vascular cells on UV-light-modified polymers. <i>Biotechnology and Applied Biochemistry</i> , <b>2004</b> , 39, 59-69	2.8	20
43	The benzazepine/benzothiazepine binding domain of the cardiac L-type Ca <sup>2+</sup> channel is accessible only from the extracellular side. <i>Pflügers Archiv European Journal of Physiology</i> , <b>1993</b> , 424, 552-4	4.6	20
42	A novel homology model of TRPC3 reveals allosteric coupling between gate and selectivity filter. <i>Cell Calcium</i> , <b>2013</b> , 54, 175-85	4	19
41	Action of calpastatin in prevention of cardiac L-type Ca <sup>2+</sup> channel run-down cannot be mimicked by synthetic calpain inhibitors. <i>Pflügers Archiv European Journal of Physiology</i> , <b>1995</b> , 429, 503-10	4.6	19
40	The STIM1: Orai Interaction. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 898, 25-46	3.6	19
39	Gating and permeation of Orai channels. <i>Frontiers in Bioscience - Landmark</i> , <b>2012</b> , 17, 1304-22	2.8	18
38	Live-cell imaging of ER-PM contact architecture by a novel TIRFM approach reveals extension of junctions in response to store-operated Ca-entry. <i>Scientific Reports</i> , <b>2016</b> , 6, 35656	4.9	18
37	Inhibition of Orai1-mediated Ca(2+) entry is a key mechanism of the antiproliferative action of sirolimus in human arterial smooth muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2013</b> , 305, H1646-57	5.2	16
36	Modulation of the smooth-muscle L-type Ca <sup>2+</sup> channel $\beta$ subunit ( $\beta$ C-b) by the $\alpha$ a subunit: a peptide which inhibits binding of $\beta$ to the I-II linker of $\beta$ induces functional uncoupling. <i>Biochemical Journal</i> , <b>2000</b> , 348, 657	3.8	16
35	ATP-induced activation of expressed RyR3 at low free calcium. <i>FEBS Letters</i> , <b>2000</b> , 471, 256-60	3.8	15

34	Lipid-independent control of endothelial and neuronal TRPC3 channels by light. <i>Chemical Science</i> , <b>2019</b> , 10, 2837-2842	9.4	14
33	The STIM-Orai Pathway: The Interactions Between STIM and Orai. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 993, 59-81	3.6	14
32	Estimating the number of channels in patch-clamp recordings: application to kinetic analysis of multichannel data from voltage-operated channels. <i>Biophysical Journal</i> , <b>1997</b> , 72, 1143-52	2.9	14
31	Direct association of the reticulon protein RTN1A with the ryanodine receptor 2 in neurons. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2013</b> , 1833, 1421-33	4.9	11
30	Co-localization of CD3 and prion protein in Jurkat lymphocytes after hypothermal stimulation. <i>FEBS Letters</i> , <b>2004</b> , 566, 121-5	3.8	11
29	Mechanism of STIM activation. <i>Current Opinion in Physiology</i> , <b>2020</b> , 17, 74-79	2.6	11
28	Rapid NMR-scale purification of N,C isotope-labeled recombinant human STIM1 coiled coil fragments. <i>Protein Expression and Purification</i> , <b>2018</b> , 146, 45-50	2	10
27	Interhelical interactions within the STIM1 CC1 domain modulate CRAC channel activation. <i>Nature Chemical Biology</i> , <b>2021</b> , 17, 196-204	11.7	10
26	Lpe10p modulates the activity of the Mrs2p-based yeast mitochondrial Mg <sup>2+</sup> channel. <i>FEBS Journal</i> , <b>2010</b> , 277, 3514-25	5.7	9
25	STIM Proteins: An Ever-Expanding Family. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 22,	6.3	9
24	CRAC channel opening is determined by a series of Orai1 gating checkpoints in the transmembrane and cytosolic regions. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100224	5.4	9
23	Basal dephosphorylation controls slow gating of L-type Ca <sup>2+</sup> channels in human vascular smooth muscle. <i>FEBS Letters</i> , <b>1995</b> , 373, 30-4	3.8	8
22	Detailed Evidence for an Unparalleled Interaction Mode between Calmodulin and Orai Proteins. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15755-15759	16.4	7
21	The Run-Down Phenomenon of Ca <sup>2+</sup> Channels <b>2005</b> , 219-230		7
20	Investigations on the distribution of polymer additives in polypropylene using confocal fluorescence microscopy. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2017</b> , 22, 692-698	1.7	6
19	Micropatterned atmospheric pressure discharge surface modification of fluorinated polymer films for mammalian cell adhesion and protein binding. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 92, 547-555	2.6	6
18	Natural product inspired optimization of a selective TRPV6 calcium channel inhibitor. <i>RSC Medicinal Chemistry</i> , <b>2020</b> , 11, 1032-1040	3.5	6
17	Inactivation-mimicking block of the epithelial calcium channel TRPV6. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	6



16	Photoswitchable Inhibitor of the Calcium Channel TRPV6. <i>ACS Medicinal Chemistry Letters</i> , <b>2019</b> , 10, 1341-1345		
15	Laser microstructuring of photomodified fluorinated ethylene propylene surface for confined growth of Chinese hamster ovary cells and single cell isolation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 170-6	3.5	5
14	Laser-induced periodic surface structures (LIPSS) on polymer surfaces <b>2012</b> ,		5
13	Removing non-random artifacts from patch clamp traces. <i>Journal of Neuroscience Methods</i> , <b>1998</b> , 82, 175-86	3	3
12	Natural photoswitches expose STIM1 activation steps. <i>Cell Calcium</i> , <b>2020</b> , 90, 102240	4	2
11	A series of Orai1 gating checkpoints in transmembrane and cytosolic regions requires clearance for CRAC channel opening: Clearance and synergy of Orai1 gating checkpoints controls pore opening		2
10	The STIM-Orai Pathway <b>2012</b> , 45-56		1
9	Defects in the STIM1 SOAR domain affect multiple steps in the CRAC channel activation cascade. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 6645-6667	10.3	0
8	Multiple Evidenz für einen ungewöhnlichen Wechselwirkungsmodus zwischen Calmodulin und Orai-Proteinen. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15962-15967	3.6	
7	Extending optogenetics to a Ca(2+)-selective channel. <i>Chemistry and Biology</i> , <b>2011</b> , 18, 820-1		
6	Corrigendum to: Trp proteins form store-operated cation channels in human vascular endothelial cells (FEBS 20791). <i>FEBS Letters</i> , <b>1999</b> , 442, 122-122	3.8	
5	Protein-Protein Interactions in TRPC Channel Complexes. <i>Frontiers in Neuroscience</i> , <b>2006</b> , 331-348		
4	Complex role of STIM1 in the activation of store-independent Orai1/3 channels. <i>Journal of Cell Biology</i> , <b>2014</b> , 204, 2045-2054	7.3	
3	Resonance assignment of coiled-coil 3 (CC3) domain of human STIM1. <i>Biomolecular NMR Assignments</i> , <b>2021</b> , 15, 433-439	0.7	
2	Commentary to Baraniak et al. "Orai channel C-terminal peptides are key modulators of STIM-Orai coupling and calcium signal generation" published in cell reports 35: 109322. <i>Cell Calcium</i> , <b>2021</b> , 98, 102455	4	
1	"Functional communication between IPR and STIM2 at subthreshold stimuli is a critical checkpoint for initiation of SOCE".. <i>Cell Calcium</i> , <b>2022</b> , 104, 102574	4	