Klaus Groschner

List of Publications by Year
in descending order

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169 papers	6,474 citations	57719 44 h-index	74108 75 g-index
178 all docs	178 docs citations	178 times ranked	5355 citing authors

#	Article	IF	Citations
1	Dynamic Coupling of the Putative Coiled-coil Domain of ORAI1 with STIM1 Mediates ORAI1 Channel Activation. Journal of Biological Chemistry, 2008, 283, 8014-8022.	1.6	366
2	A Cytosolic Homomerization and a Modulatory Domain within STIM1 C Terminus Determine Coupling to ORAI1 Channels. Journal of Biological Chemistry, 2009, 284, 8421-8426.	1.6	289
3	Coassembly of Trp1 and Trp3 Proteins Generates Diacylglycerol- and Ca2+-sensitive Cation Channels. Journal of Biological Chemistry, 2000, 275, 27799-27805.	1.6	264
4	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. EMBO Journal, 2011, 30, 1678-1689.	3.5	204
5	TRPC3 and TRPC4 Associate to Form a Redox-sensitive Cation Channel. Journal of Biological Chemistry, 2006, 281, 13588-13595.	1.6	198
6	Ca2+ Signaling by TRPC3 Involves Na+ Entry and Local Coupling to the Na+/Ca2+ Exchanger. Journal of Biological Chemistry, 2004, 279, 13696-13704.	1.6	164
7	Novel pyrazole compounds for pharmacological discrimination between receptorâ€operated and storeâ€operated <scp><scp>Ca²⁺</scp></scp> entry pathways. British Journal of Pharmacology, 2012, 167, 1712-1722.	2.7	160
8	Molecular Analysis of a Store-operated and 2-Acetyl-sn-glycerol-sensitive Non-selective Cation Channel. Journal of Biological Chemistry, 2005, 280, 21600-21606.	1.6	151
9	Trp proteins form store-operated cation channels in human vascular endothelial cells. FEBS Letters, 1998, 437, 101-106.	1.3	150
10	Molecular Determinants of the Coupling between STIM1 and Orai Channels. Journal of Biological Chemistry, 2009, 284, 21696-21706.	1.6	140
11	Evidence for a role of Trp proteins in the oxidative stress-induced membrane conductances of porcine aortic endothelial cells. Cardiovascular Research, 1999, 42, 543-549.	1.8	138
12	2-Aminoethoxydiphenyl Borate Alters Selectivity of Orai3 Channels by Increasing Their Pore Size. Journal of Biological Chemistry, 2008, 283, 20261-20267.	1.6	131
13	Novel genetically encoded fluorescent probes enable real-time detection of potassium in vitro and in vivo. Nature Communications, 2017, 8, 1422.	5.8	130
14	Piezo1 forms mechanosensitive ion channels in the human MCF-7 breast cancer cell line. Scientific Reports, 2015, 5, 8364.	1.6	122
15	A Ca2+ Release-activated Ca2+ (CRAC) Modulatory Domain (CMD) within STIM1 Mediates Fast Ca2+-dependent Inactivation of ORAI1 Channels. Journal of Biological Chemistry, 2009, 284, 24933-24938.	1.6	115
16	Dynamic but not constitutive association of calmodulin with rat TRPV6 channels enables fine tuning of Ca2+-dependent inactivation. Journal of Physiology, 2006, 577, 31-44.	1.3	106
17	The Extended Transmembrane Orai1 N-terminal (ETON) Region Combines Binding Interface and Gate for Orai1 Activation by STIM1. Journal of Biological Chemistry, 2013, 288, 29025-29034.	1.6	101
18	Functional Consequences of P/Q-type Ca2+Channel Cav2.1 Missense Mutations Associated with Episodic Ataxia Type 2 and Progressive Ataxia. Journal of Biological Chemistry, 2002, 277, 6960-6966.	1.6	94

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19	Na+/Ca2+ Exchange Facilitates Ca2+-dependent Activation of Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 1999, 274, 29529-29535.	1.6	87
20	Current modulation and membrane targeting of the calcium channel Î±1Csubunit are independent functions of the Î² subunit. Journal of Physiology, 1999, 517, 353-368.	1.3	85
21	An optically controlled probe identifies lipid-gating fenestrations within the TRPC3 channel. Nature Chemical Biology, 2018, 14, 396-404.	3.9	85
22	Phospholipase C-dependent control of cardiac calcium homeostasis involves a TRPC3-NCX1 signaling complex. Cardiovascular Research, 2007, 73, 111-119.	1.8	84
23	Intracellular Ca2+ Inhibits Smooth Muscle L-Type Ca2+ Channels by Activation of Protein Phosphatase Type 2B and by Direct Interaction with the Channel. Journal of General Physiology, 1997, 110, 503-513.	0.9	82
24	Cholesterol modulates Orai1 channel function. Science Signaling, 2016, 9, ra10.	1.6	80
25	PKC-dependent coupling of calcium permeation through transient receptor potential canonical 3 (TRPC3) to calcineurin signaling in HL-1 myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10556-10561.	3.3	79
26	Store Depletion-activated CaT1 Currents in Rat Basophilic Leukemia Mast Cells Are Inhibited by 2-Aminoethoxydiphenyl Borate. Journal of Biological Chemistry, 2002, 277, 26950-26958.	1.6	77
27	Bile acids induce arrhythmias in human atrial myocardiumâ€"implications for altered serum bile acid composition in patients with atrial fibrillation. Heart, 2013, 99, 1685-1692.	1.2	73
28	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovascular Research, 2015, 106, 163-173.	1.8	69
29	Transmembrane helix connectivity in Orai1 controls two gates for calcium-dependent transcription. Science Signaling, 2017, 10, .	1.6	68
30	Activation of a small-conductance Ca2+-dependent K+ channel contributes to bradykinin-induced stimulation of nitric oxide synthesis in pig aortic endothelial cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1992, 1137, 162-170.	1.9	67
31	Plasticity in Ca ²⁺ selectivity of Orai1/Orai3 heteromeric channel. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19623-19628.	3.3	61
32	Extracellular pH Affects Platelet Aggregation Associated with Modulation of Store-Operated Ca2+ Entry. Thrombosis Research, 2001, 104, 353-360.	0.8	59
33	Protein kinase-C mediates dual modulation of L-type Ca2+channels in human vascular smooth muscle. FEBS Letters, 1994, 341, 208-212.	1.3	58
34	Live-cell imaging of ER-PM contact architecture by a novel TIRFM approach reveals extension of junctions in response to store-operated Ca2+-entry. Scientific Reports, 2016, 6, 35656.	1.6	58
35	S-Nitrosation Controls Gating and Conductance of the Î±1 Subunit of Class C L-type Ca2+ Channels. Journal of Biological Chemistry, 2001, 276, 14797-14803.	1.6	57
36	Inhibition of a storeâ€•operated Ca²⁺ entry pathway in human endothelial cells by the isoquinoline derivative LOE 908. British Journal of Pharmacology, 1996, 119, 702-706.	2.7	53

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37	Na+ entry and modulation of Na+/Ca2+ exchange as a key mechanism of TRPC signaling. Pflugers Archiv European Journal of Physiology, 2005, 451, 99-104.	1.3	53
38	Cellular cholesterol controls TRPC3 function: evidence from a novel dominant-negative knockdown strategy. Biochemical Journal, 2006, 396, 147-155.	1.7	52
39	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-specific Gating. Journal of Biological Chemistry, 2011, 286, 8577-8584.	1.6	51
40	Cholesterol- and caveolin-rich membrane domains are essential for phospholipase A-dependent EDHF formation. Cardiovascular Research, 2004, 64, 234-242.	1.8	49
41	Role of TRP Channels in Oxidative Stress. Novartis Foundation Symposium, 2008, , 222-235.	1.2	48
42	A cardiac pathway of cyclic GMP-independent signaling of guanylyl cyclase A, the receptor for atrial natriuretic peptide. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18500-18505.	3.3	48
43	Contribution of TRPC3 to Store-Operated Calcium Entry and Inflammatory Transductions in Primary Nociceptors. Molecular Pain, 2014, 10, 1744-8069-10-43.	1.0	48
44	Voltage-sensitive chloride channels of large conductance in the membrane of pig aortic endothelial cells. Pflugers Archiv European Journal of Physiology, 1992, 421, 209-217.	1.3	47
45	Modulation of the smooth-muscle L-type Ca2+ channel Î±1 subunit (Î±1C-b) by the Î²2a subunit: a peptide which inhibits binding of Î² to the Iâ€“II linker of Î±1 induces functional uncoupling. Biochemical Journal, 2000, 348, 657-665.	1.7	47
46	Intracellular Ca2+ inactivates L-type Ca2+ channels with a Hill coefficient of approximately 1 and an inhibition constant of approximately 4 microM by reducing channel's open probability. Biophysical Journal, 1997, 73, 1857-1865.	0.2	46
47	Cell-Cell Contact Formation Governs Ca2+ Signaling by TRPC4 in the Vascular Endothelium. Journal of Biological Chemistry, 2010, 285, 4213-4223.	1.6	45
48	The role of myoendothelial cell contact in nonâ€nitric oxideâ€ nonâ€prostanoidâ€mediated endotheliumâ€dependent relaxation of porcine coronary artery. British Journal of Pharmacology, 1994, 113, 1289-1294.	2.7	44
49	A type 2A phosphatase-sensitive phosphorylation site controls modal gating of L-type Ca2+ channels in human vascular smooth-muscle cells. Biochemical Journal, 1996, 318, 513-517.	1.7	44
50	Molecular Determinants within N Terminus of Orai3 Protein That Control Channel Activation and Gating. Journal of Biological Chemistry, 2011, 286, 31565-31575.	1.6	44
51	Canonical Transient Receptor Potential (TRPC) 1 Acts as a Negative Regulator for Vanilloid TRPV6-mediated Ca2+ Influx. Journal of Biological Chemistry, 2012, 287, 35612-35620.	1.6	44
52	A novel STIM1-Orai1 gating interface essential for CRAC channel activation. Cell Calcium, 2019, 79, 57-67.	1.1	44
53	CaT1 knock-down strategies fail to affect CRAC channels in mucosal-type mast cells. Journal of Physiology, 2004, 557, 121-132.	1.3	41
54	Intracellular pH as a Determinant of Vascular Smooth Muscle Function. Journal of Vascular Research, 2006, 43, 238-250.	0.6	40

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55	TRPC3 as a Target of Novel Therapeutic Interventions. Cells, 2018, 7, 83.	1.8	40
56	Sunitinib causes doseâ€dependent negative functional effects on myocardium and cardiomyocytes. BJU International, 2012, 110, 1455-1462.	1.3	39
57	A TRPC3 Blocker, Ethyl-1-(4-(2,3,3-Trichloroacrylamide)Phenyl)-5-(Trifluoromethyl)-1H-Pyrazole-4-Carboxylate (Pyr3), Prevents Stent-Induced Arterial Remodeling. Journal of Pharmacology and Experimental Therapeutics, 2013, 344, 33-40.	1.3	38
58	The first ankyrin-like repeat is the minimum indispensable key structure for functional assembly of homo- and heteromeric TRPC4/TRPC5 channels. Cell Calcium, 2008, 43, 260-269.	1.1	36
59	Nitric oxide inhibits capacitative Ca2+entry by suppression of mitochondrial Ca2+handling. British Journal of Pharmacology, 2002, 137, 821-830.	2.7	35
60	Nanopatterned polymer substrates promote endothelial proliferation by initiation of Î²-catenin transcriptional signaling. Acta Biomaterialia, 2012, 8, 2953-2962.	4.1	35
61	Role of TRP channels in oxidative stress. Novartis Foundation Symposium, 2004, 258, 222-30; discussion 231-5, 263-6.	1.2	34
62	Dipeptidyl peptidase-4 independent cardiac dysfunction links saxagliptin to heart failure. Biochemical Pharmacology, 2017, 145, 64-80.	2.0	33
63	Highâ€Speed Microwaveâ€Assisted Synthesis of the Trifluoromethylpyrazolâ€Derived Canonical Transient Receptor Potential (TRPC) Channel Inhibitor Pyr3. ChemMedChem, 2009, 4, 1816-1818.	1.6	32
64	Ca2+-activated K+ channels in airway smooth muscle are inhibited by cytoplasmic adenosine triphosphate. Pflugers Archiv European Journal of Physiology, 1991, 417, 517-522.	1.3	31
65	SK&F 96365 inhibits histamine-induced formation of endothelium-derived relaxing factor in human endothelial cells. Biochemical and Biophysical Research Communications, 1992, 186, 1539-1545.	1.0	31
66	Divergent effects of extracellular and intracellular alkalosis on Ca2+ entry pathways in vascular endothelial cells. Biochemical Journal, 1997, 323, 567-573.	1.7	31
67	Molecular determinant for runâ€down of Lâ€type Ca 2+ channels localized in the carboxyl terminus of the Î± 1C subunit. Journal of Physiology, 2000, 529, 119-130.	1.3	30
68	Mechanisms of lipid regulation and lipid gating in TRPC channels. Cell Calcium, 2016, 59, 271-279.	1.1	30
69	Crosstalk Between Voltage-Independent Ca 2+ Channels and L-Type Ca 2+ Channels in A7r5 Vascular Smooth Muscle Cells at Elevated Intracellular pH. Circulation Research, 2003, 92, 888-896.	2.0	29
70	15-deoxy-Î”12,14-PGJ2 promotes inflammation and apoptosis in cardiomyocytes via the DP2/MAPK/TNFÎ± axis. International Journal of Cardiology, 2014, 173, 472-480.	0.8	29
71	Trypsin increases availability and open probability of cardiac L-type Ca2+ channels without affecting inactivation induced by Ca2+. Biophysical Journal, 1995, 69, 1847-1857.	0.2	28
72	Expression of Trp3 Determines Sensitivity of Capacitative Ca2+ Entry to Nitric Oxide and Mitochondrial Ca2+ Handling. Journal of Biological Chemistry, 2001, 276, 48149-48158.	1.6	28

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73	Identification of a rare subset of adipose tissueâ€resident progenitor cells, which express CD133 and TRPC3 as a VEGFâ€regulated Ca²⁺ entry channel. FEBS Letters, 2008, 582, 2696-2702.	1.3	28
74	Lipid-independent control of endothelial and neuronal TRPC3 channels by light. Chemical Science, 2019, 10, 2837-2842.	3.7	28
75	A sequence in the carboxy-terminus of the Î±1C subunit important for targeting, conductance and open probability of L-type Ca2+ channels. FEBS Letters, 2000, 477, 161-169.	1.3	27
76	Pharmacological Characterization of the Native Store-Operated Calcium Channels of Cortical Neurons from Embryonic Mouse Brain. Frontiers in Pharmacology, 2016, 7, 486.	1.6	26
77	Essential role of the beta subunit in modulation of C-class L-type Ca2+ channels by intracellular pH. FEBS Letters, 1997, 408, 75-80.	1.3	25
78	Modification of the association between alcohol drinking and non-HDL cholesterol by gender. Clinica Chimica Acta, 2009, 404, 154-159.	0.5	25
79	A novel homology model of TRPC3 reveals allosteric coupling between gate and selectivity filter. Cell Calcium, 2013, 54, 175-185.	1.1	25
80	TRPC3: A Multifunctional Signaling Molecule. Handbook of Experimental Pharmacology, 2014, 222, 67-84.	0.9	25
81	Vascular Actions of Anthracycline Antibiotics. Current Medicinal Chemistry, 2003, 10, 427-436.	1.2	24
82	Urocortin 2 stimulates nitric oxide production in ventricular myocytes via Akt- and PKA-mediated phosphorylation of eNOS at serine 1177. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H689-H700.	1.5	24
83	TRPC-mediated Ca2+ signaling and control of cellular functions. Seminars in Cell and Developmental Biology, 2019, 94, 28-39.	2.3	24
84	TRPC3: a versatile transducer molecule that serves integration and diversification of cellular signals. Naunyn-Schmiedeberg's Archives of Pharmacology, 2005, 371, 251-256.	1.4	23
85	Characterization of muscarinic receptors mediating endothelium-dependent relaxation of bovine coronary artery. European Journal of Pharmacology, 1991, 200, 25-33.	1.7	22
86	Evidence for a Direct Inhibitory Effect of Extracellular H+on Store Depletion-Activated Ca2+Entry in Vascular Endothelial Cells. Biochemical and Biophysical Research Communications, 1996, 221, 762-767.	1.0	18
87	Estimating the number of channels in patch-clamp recordings: application to kinetic analysis of multichannel data from voltage-operated channels. Biophysical Journal, 1997, 72, 1143-1152.	0.2	17
88	Inhibition of Orai1-mediated Ca²⁺ entry is a key mechanism of the antiproliferative action of sirolimus in human arterial smooth muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1646-H1657.	1.5	17
89	Na +/Ca2+ exchangers and Orai channels jointly refill endoplasmic reticulum (ER) Ca2+ via ER nanojunctions in vascular endothelial cells. Pflugers Archiv European Journal of Physiology, 2017, 469, 1287-1299.	1.3	17
90	Modulation of the smooth-muscle L-type Ca2+ channel Î±1 subunit (Î±1C-b) by the Î²2a subunit: a peptide which inhibits binding of Î² to the Iâ€II linker of Î±1 induces functional uncoupling. Biochemical Journal, 2000, 348, 657.	1.7	16

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91	Comparison of neuronal and endothelial isoforms of nitric oxide synthase in stably transfected HEK 293 cells. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2053-H2061.	1.5	16
92	Photopharmacology and opto-chemogenetics of TRPC channels-some therapeutic visions. , 2019, 200, 13-26.		15
93	The effects of the stereoisomers of propafenone and diprafenone in guineaâ€pig heart. British Journal of Pharmacology, 1991, 102, 669-674.	2.7	14
94	Age-dependent associations of smoking and drinking with nonâ€“high-density lipoprotein cholesterol. Metabolism: Clinical and Experimental, 2010, 59, 1074-1081.	1.5	13
95	High-speed microwave assisted synthesis of SEA0400â€”a selective inhibitor of the Na+/Ca2+ exchanger. Tetrahedron Letters, 2012, 53, 3731-3734.	0.7	13
96	A single point mutation in the TRPC3 lipid-recognition window generates supersensitivity to benzimidazole channel activators. Cell Calcium, 2019, 79, 27-34.	1.1	13
97	STIM1 and Orai1 regulate Ca2+ microdomains for activation of transcription. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1079-1091.	1.9	13
98	TRPC3/6/7: Topical aspects of biophysics and pathophysiology. Channels, 2008, 2, 94-99.	1.5	12
99	TRIC-A shapes oscillatory Ca2+ signals by interaction with STIM1/Orai1 complexes. PLoS Biology, 2020, 18, e3000700.	2.6	12
100	Potassium ions promote hexokinase-II dependent glycolysis. IScience, 2021, 24, 102346.	1.9	12
101	Cardiovascular and Hemostatic Disorders: SOCE in Cardiovascular Cells: Emerging Targets for Therapeutic Intervention. Advances in Experimental Medicine and Biology, 2017, 993, 473-503.	0.8	11
102	Blood levels of microRNAs associated with ischemic heart disease differ between Austrians and Japanese: a pilot study. Scientific Reports, 2020, 10, 13628.	1.6	11
103	Diacylglycerols interact with the L2 lipidation site in TRPC3 to induce a sensitized channel state. EMBO Reports, 2022, 23, .	2.0	11
104	Basal dephosphorylation controls slow gating of L-type Ca2+ channels in human vascular smooth muscle. FEBS Letters, 1995, 373, 30-34.	1.3	10
105	NH4Cl-induced contraction of porcine coronary artery involves activation of dihydropyridine-sensitive Ca2+ entry. European Journal of Pharmacology, 1996, 299, 139-147.	1.7	10
106	TRPC4 expression determines sensitivity of the platelet-type capacitative Ca2+entry channel to intracellular alkalosis. Platelets, 2006, 17, 454-461.	1.1	10
107	Enhanced Ca²⁺Entry and Tyrosine Phosphorylation Mediate Nanostructure-Induced Endothelial Proliferation. Journal of Nanomaterials, 2013, 2013, 1-10.	1.5	10
108	Cromakalim Inhibits Multiple Mechanisms of Smooth Muscle Activation with Similar Stereoselectivity. Journal of Cardiovascular Pharmacology, 1993, 21, 947-954.	0.8	9

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109	Intensified Microwave-Assisted N-Acylation Procedure â€“ Synthesis and Activity Evaluation of TRPC3 Channel Agonists with a 1,3-Dihydro-2H-benzo[d]imidazol-2-one Core. Synlett, 2017, 28, 695-700.	1.0	9
110	Mechanisms and significance of Ca2+ entry through TRPC channels. Current Opinion in Physiology, 2020, 17, 25-33.	0.9	9
111	Intracellular alkalinization augments Î±1-adrenoceptor-mediated vasoconstriction by promotion of Ca2+ entry through the non-L-type Ca2+ channels. European Journal of Pharmacology, 2001, 428, 251-259.	1.7	8
112	The cardiac acetylcholine-activated, inwardly rectifying K+-channel subunit GIRK1 gives rise to an inward current induced by free oxygen radicals. Free Radical Biology and Medicine, 1999, 26, 253-259.	1.3	7
113	Desensitization of endothelial nitric oxide synthase by receptor agonists. Biochemical Journal, 2002, 364, 863-868.	1.7	7
114	Localization of VE-cadherin in plasmalemmal cholesterol rich microdomains and the effects of cholesterol depletion on VE-cadherin mediated cellâ€“cell adhesion. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1725-1732.	1.2	7
115	Characterization of DAG Binding to TRPC Channels by Target-Dependent cisâ€“trans Isomerization of OptoDArG. Biomolecules, 2022, 12, 799.	1.8	7
116	Two ways to feel the pressure: an endothelial Ca2+ entry channel with dual mechanosensitivity. Cardiovascular Research, 2002, 53, 9-11.	1.8	6
117	Optopharmacological control of TRPC channels by coumarin-caged lipids is associated with a phototoxic membrane effect. Science China Life Sciences, 2016, 59, 802-810.	2.3	6
118	Revelation of an enigmatic signaling machineryâ€”First insights into the mammalian TRPC architecture. Cell Calcium, 2018, 74, 144-146.	1.1	6
119	Light-Mediated Control over TRPC3-Mediated NFAT Signaling. Cells, 2020, 9, 556.	1.8	6
120	Inhibitory effects of aclarubicin on nitric oxide production in aortic smooth muscle cells and macrophages. Biochemical Pharmacology, 2000, 59, 719-726.	2.0	5
121	Polymodal TRPC signaling. Communicative and Integrative Biology, 2010, 3, 393-395.	0.6	5
122	Reprint of â€œMechanisms of lipid regulation and lipid gating in TRPC channelsâ€• Cell Calcium, 2016, 60, 133-141.	1.1	5
123	I K.ACh activation by arachidonic acid occurs via a G-protein-independent pathway mediated by the GIRK1 subunit. Pflugers Archiv European Journal of Physiology, 2000, 441, 251-256.	1.3	3
124	Functional impairment of endothelial cells by the antimycotic amphotericin B. Biochemical and Biophysical Research Communications, 2016, 472, 40-45.	1.0	3
125	NO and cholinergic signalling in the heart: divergent routes to regulatory phosphorylation of the cardiac L-type Ca2+ channel. Cardiovascular Research, 2003, 60, 223-225.	1.8	2
126	Non-Orai Partners of STIM Proteins. , 2017, , 177-196.		2

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127	Ethnic Differences in Serum Levels of microRNAs Potentially Regulating Alcohol Dehydrogenase 1B and Aldehyde Dehydrogenase 2. Journal of Clinical Medicine, 2021, 10, 3678.	1.0	1
128	TRPC3, an underestimated, universal pacemaker channel?. Cell Calcium, 2021, 100, 102484.	1.1	1
129	Two-Dimensional Interfacial Exchange Diffusion Has the Potential to Augment Spatiotemporal Precision of Ca2+ Signaling. International Journal of Molecular Sciences, 2022, 23, 850.	1.8	1
130	Exploring TRPC3 Interaction with Cholesterol through Coarse-Grained Molecular Dynamics Simulations. Biomolecules, 2022, 12, 890.	1.8	1
131	Role of TRP channels in endothelial pathophysiologyâ€"evidence for vascular TRPs as a potential target for drug therapy. International Congress Series, 2004, 1262, 137-140.	0.2	0
132	TRPC3 as a key player in electrical remodelling of atrial myocardium. BMC Pharmacology, 2008, 8, .	0.4	0
133	Identification of amino acid residues relevant for gating and permeation of the cation channel TRPC3. BMC Pharmacology, 2008, 8, .	0.4	0
134	Store-operated calcium entry into rat basophil leukaemia cells: contribution of TRPC3 and Orai1. BMC Pharmacology, 2009, 9, A11.	0.4	0
135	Molecular engineering of the TRPC3 pore structure identifies Ca2+ permeation through TRPC3 channels as a key determinant of cardiac calcineurin/NFAT signaling. BMC Pharmacology, 2010, 10, .	0.4	0
136	Trpc3-Mediated Electrical Remodeling of Cardiac Myocytes. Biophysical Journal, 2010, 98, 326a.	0.2	0
137	Conformational Rearrangement within STIM1 C-terminus Crucial for Coupling to Orai1. Biophysical Journal, 2010, 98, 676a-677a.	0.2	0
138	Analysis of the Role of TRPC3 in Ca2+ Signaling of RBL-2H3 Mast Cells. Biophysical Journal, 2010, 98, 344a.	0.2	0
139	Positively Charged as Well as Hydrophobic Amino Acids in Oraisâ€™ Conserved N-Terminal Domain Contribute to Orai Function. Biophysical Journal, 2010, 98, 676a.	0.2	0
140	Regulatory Role of N-terminal Orai Domains in Current Activation. Biophysical Journal, 2010, 98, 676a.	0.2	0
141	Engineering of the TRPC3 Selectivity Filter Identifies a Unique, Dual Signaling Function of TRPC3 in the Heart. Biophysical Journal, 2011, 100, 520a.	0.2	0
142	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-Specific Gating. Biophysical Journal, 2011, 100, 181a-182a.	0.2	0
143	Analysis of the Functional Determinants of Cation Permeation Through TRPC3. Biophysical Journal, 2011, 100, 105a-106a.	0.2	0
144	Analysis of the Molecular Basis of Ca2+- dependent Regulation of TRPC3 Channels. Biophysical Journal, 2011, 100, 106a.	0.2	0

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145	Novel pyrazole inhibitors for discrimination between receptor-operated and store-operated Ca2+ entry. BMC Pharmacology, 2011, 11, A18.	0.4	0
146	TRPC3 Expression Modulates Store-Operated Currents in RBL-2H3 Cells. Biophysical Journal, 2012, 102, 534a.	0.2	0
147	TRPC3 Overexpression Promotes AngiotensinII Induced Cardiac Dysfunction. Biophysical Journal, 2012, 102, 534a.	0.2	0
148	TRPC3 overexpression promotes angiotensin II-induced cardiac dysfunction. BMC Pharmacology & Toxicology, 2012, 13, .	1.0	0
149	A TRPC3 blocker, Pyr3, prevents stent-induced arterial remodeling. BMC Pharmacology & Toxicology, 2012, 13, A85.	1.0	0
150	Remodelling of the Cardiac NCX1-TRPC3 Signaling Complex Promotes Angiotensin Ii-Induced Arrhythmogenesis. Biophysical Journal, 2013, 104, 294a.	0.2	0
151	TRPC 1 acts as a Negative Regulator for TRPV6 Mediated Ca2+ Influx. Biophysical Journal, 2013, 104, 457a.	0.2	0
152	Stretch-Induced Activation of NFAT Signaling in Hl-1 Cardiomyocytes. Biophysical Journal, 2013, 104, 455a.	0.2	0
153	TRPC3 Channels in Angiotensin II-Induced Calcium- Dependent Arrhythmias in Mouse and Human Cardiomyocytes. Biophysical Journal, 2013, 104, 434a.	0.2	0
154	TRPC3 Modulates Association of Orai1 with Immunophilin FKBP12 and Orai-Mediated Ca2+-Transcription Coupling in Mast Cells. Biophysical Journal, 2014, 106, 755a.	0.2	0
155	Allosteric Coupling Between Gate and Selectivity Filter in TRPC3. Biophysical Journal, 2014, 106, 336a.	0.2	0
156	Identification of an Essential Structural Element of Lipid Gating Mechanism in the Transient Receptor Potential Canonical Channel Type 3 (TRPC3). Biophysical Journal, 2015, 108, 282a.	0.2	0
157	Modulation of Neuronal Activity by Synthetic Activators of Lipid-Gated TRPC Channels. Biophysical Journal, 2016, 110, 610a.	0.2	0
158	Fluorescence Density Mapping: Extending the Possibilities of TIRFM to Study PM-ER Junctions. Biophysical Journal, 2016, 110, 16a.	0.2	0
159	TRPC3-Calcineurin Microdomains Govern Orai1 Signaling in Mast Cells. Biophysical Journal, 2016, 110, 610a.	0.2	0
160	Photopharmacological Modulation of Lipid-Gated TRPC Channels as a Strategy to Govern Neuronal Excitability. Biophysical Journal, 2017, 112, 467a.	0.2	0
161	Photoswitchable Diacylglycerols Identify a Novel Lipid-Gating Mechanism in TRPC3 Channels. Biophysical Journal, 2018, 114, 641a.	0.2	0
162	Agonist-Dependent Plasticity in the TRPC3 Selectivity Filter. Biophysical Journal, 2019, 116, 536a.	0.2	0

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