

Marc Fahrner

List of Publications by Year in descending order

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3,365
citations

172207

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all docs

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docs citations

57
times ranked

2546
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Signals during SARS-CoV-2 Infection: Assessing the Potential of Emerging Therapies. <i>Cells</i> , 2022, 11, 253.	1.8	24
2	Science Communication Developing Scientific Literacy on Calcium: The Involvement of CRAC Currents in Human Health and Disease. <i>Cells</i> , 2022, 11, 1849.	1.8	3
3	Interhelical interactions within the STIM1 CC1 domain modulate CRAC channel activation. <i>Nature Chemical Biology</i> , 2021, 17, 196-204.	3.9	22
4	CRAC channel opening is determined by a series of Orai1 gating checkpoints in the transmembrane and cytosolic regions. <i>Journal of Biological Chemistry</i> , 2021, 296, 100224.	1.6	20
5	Transmembrane Domain 3 (TM3) Governs Orai1 and Orai3 Pore Opening in an Isoform-Specific Manner. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 635705.	1.8	10
6	Resonance assignment of coiled-coil 3 (CC3) domain of human STIM1. <i>Biomolecular NMR Assignments</i> , 2021, 15, 433-439.	0.4	0
7	Defects in the STIM1 SOAR2 domain affect multiple steps in the CRAC channel activation cascade. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6645-6667.	2.4	12
8	Commentary to Baraniak et al. "Orai channel C-terminal peptides are key modulators of STIM-Orai coupling and calcium signal generation" published in <i>Cell Reports</i> 35: 109322. <i>Cell Calcium</i> , 2021, 98, 102455.	1.1	0
9	STIM Proteins: An Ever-Expanding Family. <i>International Journal of Molecular Sciences</i> , 2021, 22, 378.	1.8	25
10	Orai1 Boosts SK3 Channel Activation. <i>Cancers</i> , 2021, 13, 6357.	1.7	6
11	The many states of STIM1. <i>ELife</i> , 2021, 10, .	2.8	1
12	Oxidative Stress-Induced STIM2 Cysteine Modifications Suppress Store-Operated Calcium Entry. <i>Cell Reports</i> , 2020, 33, 108292.	2.9	19
13	Mechanism of STIM activation. <i>Current Opinion in Physiology</i> , 2020, 17, 74-79.	0.9	22
14	Sequential activation of STIM1 links Ca ²⁺ with luminal domain unfolding. <i>Science Signaling</i> , 2019, 12, .	1.6	32
15	A dual mechanism promotes switching of the Stormorken STIM1 R304W mutant into the activated state. <i>Nature Communications</i> , 2018, 9, 825.	5.8	45
16	Communication between N terminus and loop2 tunes Orai activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 1271-1285.	1.6	44
17	Authentic CRAC channel activity requires STIM1 and the conserved portion of the Orai N terminus. <i>Journal of Biological Chemistry</i> , 2018, 293, 1259-1270.	1.6	40
18	Rapid NMR-scale purification of ¹⁵ N, ¹³ C isotope-labeled recombinant human STIM1 coiled coil fragments. <i>Protein Expression and Purification</i> , 2018, 146, 45-50.	0.6	10

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19	Multiple Evidenz für einen ungewöhnlichen Wechselwirkungsmodus zwischen Calmodulin und Orai-Proteinen. <i>Angewandte Chemie</i> , 2017, 129, 15962-15967.	1.6	0
20	Detailed Evidence for an Unparalleled Interaction Mode between Calmodulin and Orai Proteins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15755-15759.	7.2	12
21	The STIM-Orai Pathway: The Interactions Between STIM and Orai. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 59-81.	0.8	17
22	The STIM1: Orai Interaction. <i>Advances in Experimental Medicine and Biology</i> , 2016, 898, 25-46.	0.8	24
23	Cholesterol modulates Orai1 channel function. <i>Science Signaling</i> , 2016, 9, ra10.	1.6	80
24	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> , 2015, 112, 6206-6211.	3.3	52
25	A Coiled-coil Clamp Controls Both Conformation and Clustering of Stromal Interaction Molecule 1 (STIM1). <i>Journal of Biological Chemistry</i> , 2014, 289, 33231-33244.	1.6	105
26	Cholesterol Regulates Orai1 Function. <i>Biophysical Journal</i> , 2014, 106, 317a.	0.2	0
27	Stim1 Cytosolic Coiled-Coil Interactions in the Resting and Activated State. <i>Biophysical Journal</i> , 2014, 106, 314a.	0.2	0
28	STIM1/Orai1 coiled-coil interplay in the regulation of store-operated calcium entry. <i>Nature Communications</i> , 2013, 4, 2963.	5.8	179
29	Mechanisms of STIM1 Activation of Store-Independent Leukotriene C ₄ -Regulated Ca ²⁺ Channels. <i>Molecular and Cellular Biology</i> , 2013, 33, 3715-3723.	1.1	53
30	Store-Independent Orai1/3 Channels Activated by Intracrine Leukotriene C ₄ . <i>Circulation Research</i> , 2013, 112, 1013-1025.	2.0	106
31	The Extended Transmembrane Orai1 N-terminal (ETON) Region Combines Binding Interface and Gate for Orai1 Activation by STIM1. <i>Journal of Biological Chemistry</i> , 2013, 288, 29025-29034.	1.6	101
32	The STIM1/Orai signaling machinery. <i>Channels</i> , 2013, 7, 330-343.	1.5	42
33	Laser-induced periodic surface structures (LIPSS) on polymer surfaces. , 2012, , .		8
34	Nanopatterned polymer substrates promote endothelial proliferation by initiation of β -catenin transcriptional signaling. <i>Acta Biomaterialia</i> , 2012, 8, 2953-2962.	4.1	35
35	Ca ²⁺ release-activated Ca ²⁺ (CRAC) current, structure, and function. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 4163-4176.	2.4	53
36	Laser-induced micro- and nanostructures at polymer surfaces for applications in cell biology. , 2011, , .		1

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37	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-Specific Gating. <i>Biophysical Journal</i> , 2011, 100, 181a-182a.	0.2	0
38	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. <i>EMBO Journal</i> , 2011, 30, 1678-1689.	3.5	204
39	Cooperativeness of Orai Cytosolic Domains Tunes Subtype-specific Gating. <i>Journal of Biological Chemistry</i> , 2011, 286, 8577-8584.	1.6	51
40	Molecular Determinants within N Terminus of Orai3 Protein That Control Channel Activation and Gating. <i>Journal of Biological Chemistry</i> , 2011, 286, 31565-31575.	1.6	44
41	Dynamics of Spreading and Alignment of Cells Cultured In Vitro on a Grooved Polymer Surface. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-10.	1.5	25
42	EUV micropatterning for biocompatibility control of PET. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 511-516.	1.1	34
43	Resting State Orai1 Diffuses as Homotetramer in the Plasma Membrane of Live Mammalian Cells*. <i>Journal of Biological Chemistry</i> , 2010, 285, 41135-41142.	1.6	92
44	A Cytosolic Homomerization and a Modulatory Domain within STIM1 C Terminus Determine Coupling to ORAI1 Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 8421-8426.	1.6	289
45	Increased Hydrophobicity at the N Terminus/Membrane Interface Impairs Gating of the Severe Combined Immunodeficiency-related ORAI1 Mutant. <i>Journal of Biological Chemistry</i> , 2009, 284, 15903-15915.	1.6	72
46	Molecular Determinants of the Coupling between STIM1 and Orai Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 21696-21706.	1.6	140
47	A Ca ²⁺ Release-activated Ca ²⁺ (CRAC) Modulatory Domain (CMD) within STIM1 Mediates Fast Ca ²⁺ -dependent Inactivation of ORAI1 Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 24933-24938.	1.6	115
48	Recent progress on STIM1 domains controlling Orai activation. <i>Cell Calcium</i> , 2009, 46, 227-232.	1.1	40
49	Mechanistic view on domains mediating STIM1-Orai coupling. <i>Immunological Reviews</i> , 2009, 231, 99-112.	2.8	97
50	Interference In Coiled-coil Mediated Coupling Between Stim1 And Orai Channels. <i>Biophysical Journal</i> , 2009, 96, 115a-116a.	0.2	0
51	2-Aminoethoxydiphenyl Borate Alters Selectivity of Orai3 Channels by Increasing Their Pore Size. <i>Journal of Biological Chemistry</i> , 2008, 283, 20261-20267.	1.6	131
52	Dynamic Coupling of the Putative Coiled-coil Domain of ORAI1 with STIM1 Mediates ORAI1 Channel Activation. <i>Journal of Biological Chemistry</i> , 2008, 283, 8014-8022.	1.6	366
53	The STIM/Orai coupling machinery. <i>Channels</i> , 2008, 2, 261-268.	1.5	92
54	Dose-Dependent Immunomodulatory Effect of Human Stem Cells from Amniotic Membrane: A Comparison with Human Mesenchymal Stem Cells from Adipose Tissue. <i>Tissue Engineering</i> , 2007, 13, 1173-1183.	4.9	367