

Markus Hoth

List of Publications by Year in descending order

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123
papers

10,321
citations

44042

48
h-index

33869

99
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154
all docs

154
docs citations

154
times ranked

10815
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Sheet Scattering Microscopy to Visualize Long-Term Interactions Between Cells and Extracellular Matrix. <i>Frontiers in Immunology</i> , 2022, 13, 828634.	2.2	1
2	KIR2DS1 HLA-C status as a predictive marker for benefit from rituximab: a post-hoc analysis of the RICOVER-60 and CLL8 trials. <i>Lancet Haematology</i> , 2022, 9, e133-e142.	2.2	5
3	Unspecific CTL Killing Is Enhanced by High Glucose via TNF-Related Apoptosis-Inducing Ligand. <i>Frontiers in Immunology</i> , 2022, 13, 831680.	2.2	0
4	Cytotoxic Efficiency of Human CD8+ T Cell Memory Subtypes. <i>Frontiers in Immunology</i> , 2022, 13, 838484.	2.2	7
5	Faster cytotoxicity with age: Increased perforin and granzyme levels in cytotoxic CD8+ T cells boost cancer cell elimination. <i>Aging Cell</i> , 2022, 21, .	3.0	11
6	Micropatterned soft hydrogels to study the interplay of receptors and forces in T cell activation. <i>Acta Biomaterialia</i> , 2021, 119, 234-246.	4.1	17
7	Blockade of PD-1 decreases neutrophilic inflammation and lung damage in experimental COPD. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L958-L968.	1.3	5
8	Optoregulated force application to cellular receptors using molecular motors. <i>Nature Communications</i> , 2021, 12, 3580.	5.8	19
9	A calcium optimum for cytotoxic T lymphocyte and natural killer cell cytotoxicity. <i>Seminars in Cell and Developmental Biology</i> , 2021, 115, 10-18.	2.3	16
10	Targeting the Microtubule-Network Rescues CTL Killing Efficiency in Dense 3D Matrices. <i>Frontiers in Immunology</i> , 2021, 12, 729820.	2.2	11
11	Protein Signatures of NK Cell-Mediated Melanoma Killing Predict Response to Immunotherapies. <i>Cancer Research</i> , 2021, 81, 5540-5554.	0.4	5
12	Loss of Mitochondrial Ca ²⁺ Uniporter Limits Inotropic Reserve and Provides Trigger and Substrate for Arrhythmias in Barth Syndrome Cardiomyopathy. <i>Circulation</i> , 2021, 144, 1694-1713.	1.6	30
13	CaMKII does not control mitochondrial Ca ²⁺ uptake in cardiac myocytes. <i>Journal of Physiology</i> , 2020, 598, 1361-1376.	1.3	31
14	Deterministic actin waves as generators of cell polarization cues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 826-835.	3.3	39
15	Oxidative Stress-Induced STIM2 Cysteine Modifications Suppress Store-Operated Calcium Entry. <i>Cell Reports</i> , 2020, 33, 108292.	2.9	19
16	Integration of the B-Cell Receptor Antigen Neurabin-I/SAMD14 Into an Antibody Format as New Therapeutic Approach for the Treatment of Primary CNS Lymphoma. <i>Frontiers in Oncology</i> , 2020, 10, 580364.	1.3	3
17	Migration of Cytotoxic T Lymphocytes in 3D Collagen Matrices. <i>Biophysical Journal</i> , 2020, 119, 2141-2152.	0.2	35
18	Role of Specific B-Cell Receptor Antigens in Lymphomagenesis. <i>Frontiers in Oncology</i> , 2020, 10, 604685.	1.3	11

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19	IL-17C-mediated innate inflammation decreases the response to PD-1 blockade in a model of Kras-driven lung cancer. <i>Scientific Reports</i> , 2019, 9, 10353.	1.6	26
20	Calcium signal dynamics in T lymphocytes: Comparing in vivo and in vitro measurements. <i>Seminars in Cell and Developmental Biology</i> , 2019, 94, 84-93.	2.3	21
21	Reviewâ€”Quantification of Hydrogen Peroxide by Electrochemical Methods and Electron Spin Resonance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2019, 166, G82-G101.	1.3	38
22	STIM-Orai Channels and Reactive Oxygen Species in the Tumor Microenvironment. <i>Cancers</i> , 2019, 11, 457.	1.7	43
23	miR-34a: a new player in the regulation of T cell function by modulation of NF- κ B signaling. <i>Cell Death and Disease</i> , 2019, 10, 46.	2.7	58
24	A calcium optimum for cytotoxic T lymphocyte and natural killer cell cytotoxicity. <i>Journal of Physiology</i> , 2018, 596, 2681-2698.	1.3	64
25	Electrochemical Quantification of Extracellular Local H ₂ O ₂ Kinetics Originating from Single Cells. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 501-517.	2.5	14
26	Natural killer cells induce distinct modes of cancer cell death: Discrimination, quantification, and modulation of apoptosis, necrosis, and mixed forms. <i>Journal of Biological Chemistry</i> , 2018, 293, 16348-16363.	1.6	78
27	AXER is an ATP/ADP exchanger in the membrane of the endoplasmic reticulum. <i>Nature Communications</i> , 2018, 9, 3489.	5.8	55
28	Quantity, quality, and functionality of peripheral blood cells derived from residual blood of different apheresis kits. <i>Transfusion</i> , 2018, 58, 1516-1526.	0.8	19
29	Light-sheet Microscopy for Three-dimensional Visualization of Human Immune Cells. <i>Journal of Visualized Experiments</i> , 2018, . .	0.2	13
30	The extracellular adherence protein (Eap) of <i>Staphylococcus aureus</i> acts as a proliferation and migration repressing factor that alters the cell morphology of keratinocytes. <i>International Journal of Medical Microbiology</i> , 2017, 307, 116-125.	1.5	12
31	NFATc1 controls the cytotoxicity of CD8+ T cells. <i>Nature Communications</i> , 2017, 8, 511.	5.8	150
32	Human profilin 1 is a negative regulator of CTL mediated cellâ€”killing and migration. <i>European Journal of Immunology</i> , 2017, 47, 1562-1572.	1.6	43
33	Plant sterol ester diet supplementation increases serum plant sterols and markers of cholesterol synthesis, but has no effect on total cholesterol levels. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 169, 219-225.	1.2	19
34	DNA methylation array analysis identifies breast cancer associated <i>RPTOR</i> , <i>MGRN1</i> and <i>RAPSN</i> hypomethylation in peripheral blood DNA. <i>Oncotarget</i> , 2016, 7, 64191-64202.	0.8	33
35	An EPR and DFT study on the primary radical formed in hydroxylation reactions of 2,6-dimethoxy-1,4-benzoquinone. <i>Molecular Physics</i> , 2016, 114, 1856-1866.	0.8	1
36	Syntaxin 8 is required for efficient lytic granule trafficking in cytotoxic T lymphocytes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1653-1664.	1.9	20

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37	Cytoskeleton rotation relocates mitochondria to the immunological synapse and increases calcium signals. <i>Cell Calcium</i> , 2016, 60, 309-321.	1.1	28
38	Optimality of Spatially Inhomogeneous Search Strategies. <i>Physical Review Letters</i> , 2016, 117, 068101.	2.9	15
39	New insights into the chemistry of Coenzyme Q-0: A voltammetric and spectroscopic study. <i>Bioelectrochemistry</i> , 2016, 111, 100-108.	2.4	7
40	CRAC channels, calcium, and cancer in light of the driver and passenger concept. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1408-1417.	1.9	43
41	Deep characterization of blood cell miRNomes by NGS. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3169-3181.	2.4	15
42	Reversal of Mitochondrial Transhydrogenase Causes Oxidative Stress in Heart Failure. <i>Cell Metabolism</i> , 2015, 22, 472-484.	7.2	307
43	VAMP8-dependent fusion of recycling endosomes with the plasma membrane facilitates T lymphocyte cytotoxicity. <i>Journal of Cell Biology</i> , 2015, 210, 135-151.	2.3	74
44	Recognition of Bacterial Signal Peptides by Mammalian Formyl Peptide Receptors. <i>Journal of Biological Chemistry</i> , 2015, 290, 7369-7387.	1.6	85
45	Human T cells monitored by impedance spectrometry using field-effect transistor arrays: A novel tool for single-cell adhesion and migration studies. <i>Biosensors and Bioelectronics</i> , 2015, 67, 170-176.	5.3	22
46	<sc>DNA</sc> methylation array analyses identified breast cancer-associated <sc>HYAL2</sc> methylation in peripheral blood. <i>International Journal of Cancer</i> , 2015, 136, 1845-1855.	2.3	53
47	The Minimal Requirements to Use Calcium Imaging to Analyze <sc>CRAC</sc>. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot073262.	0.2	9
48	Syntaxin11 serves as a <sc>SNARE</sc> for the fusion of lytic granules in human cytotoxic <sc>T</sc> lymphocytes. <i>European Journal of Immunology</i> , 2014, 44, 573-584.	1.6	34
49	A simple, economic, time-resolved killing assay. <i>European Journal of Immunology</i> , 2014, 44, 1870-1872.	1.6	55
50	How ORAI and TRP channels interfere with each other: Interaction models and examples from the immune system and the skin. <i>European Journal of Pharmacology</i> , 2014, 739, 49-59.	1.7	51
51	Inverse regulation of melanoma growth and migration by <sc>ORai1</sc>-dependent calcium entry. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 442-453.	1.5	84
52	Red fluorescent genetically encoded indicator for intracellular hydrogen peroxide. <i>Nature Communications</i> , 2014, 5, 5222.	5.8	207
53	Patch-Clamp Measurement of <sc>CRAC</sc> and ORAI Channel Activity. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.top066795.	0.2	4
54	Measuring Endogenous <sc>CRAC</sc> and ORAI Currents with the Patch-Clamp Technique. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot073254.	0.2	7

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55	Molecular regulation of CRAC channels and their role in lymphocyte function. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2637-2656.	2.4	84
56	Calcium, cancer and killing: The role of calcium in killing cancer cells by cytotoxic T lymphocytes and natural killer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 1603-1611.	1.9	113
57	Square-Wave Voltammetry: A Review on the Recent Progress. <i>Electroanalysis</i> , 2013, 25, 2411-2422.	1.5	184
58	The Neglected CRAC Proteins. <i>Current Topics in Membranes</i> , 2013, 71, 237-271.	0.5	121
59	Overcoming Intrinsic Multidrug Resistance in Melanoma by Blocking the Mitochondrial Respiratory Chain of Slow-Cycling JARID1Bhigh Cells. <i>Cancer Cell</i> , 2013, 23, 811-825.	7.7	553
60	Hydroxylated derivatives of dimethoxy-1,4-benzoquinone as redox switchable earth-alkaline metal ligands and radical scavengers. <i>Scientific Reports</i> , 2013, 3, 1865.	1.6	40
61	Interplay of channels, pumps and organelle location in calcium microdomain formation. <i>New Journal of Physics</i> , 2013, 15, 055022.	1.2	16
62	Different Munc13 Isoforms Function as Priming Factors in Lytic Granule Release from Murine Cytotoxic T Lymphocytes. <i>Traffic</i> , 2013, 14, 798-809.	1.3	28
63	ORAI1 Ca ²⁺ Channels Control Endothelin-1-Induced Mitogenesis and Melanogenesis in Primary Human Melanocytes. <i>Journal of Investigative Dermatology</i> , 2012, 132, 1443-1451.	0.3	54
64	Can We See PIP3 and Hydrogen Peroxide with a Single Probe?. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 505-512.	2.5	20
65	Protein film voltammetry: electrochemical enzymatic spectroscopy. A review on recent progress. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2315-2328.	1.2	69
66	Mitochondrial dynamics and their impact on T cell function. <i>Cell Calcium</i> , 2012, 52, 57-63.	1.1	69
67	SNARE protein expression and localization in human cytotoxic T lymphocytes. <i>European Journal of Immunology</i> , 2012, 42, 470-475.	1.6	37
68	Calcium microdomains at the immunological synapse: how ORAI channels, mitochondria and calcium pumps generate local calcium signals for efficient T-cell activation. <i>EMBO Journal</i> , 2011, 30, 3895-3912.	3.5	181
69	Calcium Binding and Transport by Coenzyme Q. <i>Journal of the American Chemical Society</i> , 2011, 133, 9293-9303.	6.6	64
70	Excitable T Cells: CaV1.4 Channel Contributions and Controversies. <i>Immunity</i> , 2011, 35, 315-317.	6.6	7
71	Syntaxin7 Is Required for Lytic Granule Release from Cytotoxic T Lymphocytes. <i>Traffic</i> , 2011, 12, 890-901.	1.3	44
72	Immune synapses: mitochondrial morphology matters. <i>EMBO Journal</i> , 2011, 30, 1187-1189.	3.5	15

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73	TRP expression pattern and the functional importance of TRPC3 in primary human T-cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 412-423.	1.9	88
74	ORAI-mediated calcium influx in T cell proliferation, apoptosis and tolerance. <i>Cell Calcium</i> , 2011, 50, 261-269.	1.1	66
75	Redox regulation of calcium ion channels: Chemical and physiological aspects. <i>Cell Calcium</i> , 2011, 50, 407-423.	1.1	108
76	Docking of Lytic Granules at the Immunological Synapse in Human CTL Requires Vti1b-Dependent Pairing with CD3 Endosomes. <i>Journal of Immunology</i> , 2011, 186, 6894-6904.	0.4	55
77	Nonsteroidal Anti-inflammatory Drugs Inhibit Vascular Smooth Muscle Cell Proliferation by Enabling the Ca ²⁺ -dependent Inactivation of Calcium Release-activated Calcium/Orai Channels Normally Prevented by Mitochondria. <i>Journal of Biological Chemistry</i> , 2011, 286, 16186-16196.	1.6	40
78	Efficiency of T cell costimulation by CD80 and CD86 cross-linking correlates with calcium entry. <i>Immunology</i> , 2010, 129, 28-40.	2.0	39
79	Thapsigargin Induces Expression of Activating Transcription Factor 3 in Human Keratinocytes Involving Ca ²⁺ Ions and c-Jun N-Terminal Protein Kinase. <i>Molecular Pharmacology</i> , 2010, 78, 865-876.	1.0	49
80	Differential Redox Regulation of ORAI Ion Channels: A Mechanism to Tune Cellular Calcium Signaling. <i>Science Signaling</i> , 2010, 3, ra24.	1.6	214
81	Mitochondria Positioning Controls Local Calcium Influx in T Cells. <i>Journal of Immunology</i> , 2010, 184, 184-190.	0.4	100
82	Pharmacology of ORAI channels as a tool to understand their physiological functions. <i>Expert Review of Clinical Pharmacology</i> , 2010, 3, 291-303.	1.3	29
83	Morphological changes of T cells following formation of the immunological synapse modulate intracellular calcium signals. <i>Cell Calcium</i> , 2009, 45, 109-122.	1.1	42
84	The immunological synapse controls local and global calcium signals in T lymphocytes. <i>Immunological Reviews</i> , 2009, 231, 132-147.	2.8	48
85	Protein-film voltammetry: A theoretical study of the temperature effect using square-wave voltammetry. <i>Biophysical Chemistry</i> , 2008, 137, 49-55.	1.5	25
86	A new rapid and simple method to determine the kinetics of electrode reactions of biologically relevant compounds from the half-peak width of the square-wave voltammograms. <i>Biophysical Chemistry</i> , 2008, 138, 130-137.	1.5	26
87	Redox properties of the calcium chelator Fura-2 in mimetic biomembranes. <i>Cell Calcium</i> , 2008, 43, 615-621.	1.1	4
88	Probing the redox activity of T-lymphocytes deposited at electrode surfaces with voltammetric methods. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008, 46, 197-203.	1.4	3
89	T cell activation requires mitochondrial translocation to the immunological synapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14418-14423.	3.3	289
90	Redox Chemistry of Ca-Transporter 2-Palmitoylhydroquinone in an Artificial Thin Organic Film Membrane. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6068-6076.	1.5	29

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91	P2X7 receptor stimulation upregulates Egr-1 biosynthesis involving a cytosolic Ca ²⁺ rise, transactivation of the EGF receptor and phosphorylation of ERK and Elk-1. <i>Journal of Cellular Physiology</i> , 2007, 213, 36-44.	2.0	36
92	Calcium dependence of T cell proliferation following focal stimulation. <i>European Journal of Immunology</i> , 2007, 37, 2723-2733.	1.6	48
93	Disruption of the cortical actin cytoskeleton does not affect store operated Ca ²⁺ channels in human T cells. <i>FEBS Letters</i> , 2007, 581, 3557-3562.	1.3	17
94	Calcium release-activated calcium channels as signal transducers in T-cells. <i>Signal Transduction</i> , 2006, 6, 233-239.	0.7	0
95	TRPV6 potentiates calcium-dependent cell proliferation. <i>Cell Calcium</i> , 2006, 39, 163-173.	1.1	95
96	Sustained Activity of Calcium Release-activated Calcium Channels Requires Translocation of Mitochondria to the Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2006, 281, 40302-40309.	1.6	135
97	Calcium-dependent activation of T-lymphocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2005, 450, 1-12.	1.3	89
98	Potent Inhibition of Ca ²⁺ Release-activated Ca ²⁺ Channels and T-lymphocyte Activation by the Pyrazole Derivative BTP2. <i>Journal of Biological Chemistry</i> , 2004, 279, 12427-12437.	1.6	257
99	Ca ²⁺ Signaling in Identified T-lymphocytes from Human Intestinal Mucosa. <i>Journal of Biological Chemistry</i> , 2004, 279, 5641-5647.	1.6	31
100	Apparent cytosolic calcium gradients in T-lymphocytes due to fura-2 accumulation in mitochondria. <i>Cell Calcium</i> , 2004, 36, 99-109.	1.1	21
101	Two-photon analysis of calcium signals in T lymphocytes of intact lamina propria from human intestine. <i>European Journal of Immunology</i> , 2004, 34, 3477-3484.	1.6	18
102	TRPC3 Mediates T-cell Receptor-dependent Calcium Entry in Human T-lymphocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 26629-26638.	1.6	118
103	Skeletal muscle L-type Ca ²⁺ current modulation in $\hat{I}^{\beta}1$ -deficient and wildtype murine myotubes by the $\hat{I}^{\beta}1$ subunit and cAMP. <i>Journal of Physiology</i> , 2002, 539, 459-468.	1.3	26
104	Enhancement of calcium signalling dynamics and stability by delayed modulation of the plasma membrane calcium ATPase in human T cells. <i>Journal of Physiology</i> , 2002, 541, 877-894.	1.3	116
105	The PDZ-interacting domain of TRPC4 controls its localization and surface expression in HEK293 cells. <i>Journal of Cell Science</i> , 2002, 115, 3497-3508.	1.2	109
106	The PDZ-interacting domain of TRPC4 controls its localization and surface expression in HEK293 cells. <i>Journal of Cell Science</i> , 2002, 115, 3497-508.	1.2	100
107	Absence of the $\hat{I}^{\beta}3$ Subunit of the Skeletal Muscle Dihydropyridine Receptor Increases L-type Ca ²⁺ Currents and Alters Channel Inactivation Properties. <i>Journal of Biological Chemistry</i> , 2000, 275, 14476-14481.	1.6	95
108	TRP4 (CCE1) Protein Is Part of Native Calcium Release-activated Ca ²⁺ -like Channels in Adrenal Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 23965-23972.	1.6	170

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109	Simultaneous Measurement of Membrane Current and Intracellular Calcium. , 1999, , 140-163.		0
110	The Fate of Calcium Ions Entering a Cell. , 1998, , 23-33.		0
111	Ca ²⁺ -induced Ca ²⁺ Release in Chinese Hamster Ovary (CHO) Cells Co-expressing Dihydropyridine and Ryanodine Receptors. Journal of General Physiology, 1997, 109, 619-631.	0.9	23
112	Function Follows Form: The Role of Store-Operated Calcium Channels in T-Cell Activation. Cellular Physiology and Biochemistry, 1997, 7, 203-218.	1.1	6
113	Mitochondrial Regulation of Store-operated Calcium Signaling in T Lymphocytes. Journal of Cell Biology, 1997, 137, 633-648.	2.3	482
114	Depletion of intracellular calcium stores activates an outward potassium current in mast and RBL-1 cells that is correlated with CRAC channel activation. FEBS Letters, 1996, 390, 285-288.	1.3	22
115	Calcium and barium permeation through calcium release-activated calcium (CRAC) channels. Pflugers Archiv European Journal of Physiology, 1995, 430, 315-322.	1.3	115
116	Characterization of T cell mutants with defects in capacitative calcium entry: genetic evidence for the physiological roles of CRAC channels.. Journal of Cell Biology, 1995, 131, 655-667.	2.3	177
117	Non-specific effects of calcium entry antagonists in mast cells. Pflugers Archiv European Journal of Physiology, 1994, 428, 433-438.	1.3	154
118	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
119	Calcium influx and its control by calcium release. Current Opinion in Neurobiology, 1993, 3, 368-374.	2.0	160
120	Ion Channels and Calcium Signaling in Mast Cells. Annals of the New York Academy of Sciences, 1993, 707, 198-209.	1.8	53
121	Ca ²⁺ and Mn ²⁺ influx through receptor-mediated activation of nonspecific cation channels in mast cells.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3068-3072.	3.3	152
122	Calcium release-activated calcium current in rat mast cells.. Journal of Physiology, 1993, 465, 359-386.	1.3	671
123	Depletion of intracellular calcium stores activates a calcium current in mast cells. Nature, 1992, 355, 353-356.	13.7	1,696