

Martin Meier-Schellersheim

List of Publications by Year in descending order

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45
papers

4,284
citations

236925

25
h-index

233421

45
g-index

45
all docs

45
docs citations

45
times ranked

6053
citing authors

#	ARTICLE	IF	CITATIONS
1	Sphingosine-1-phosphate mobilizes osteoclast precursors and regulates bone homeostasis. <i>Nature</i> , 2009, 458, 524-528.	27.8	486
2	CD4 T Cell Depletion Is Linked Directly to Immune Activation in the Pathogenesis of HIV-1 and HIV-2 but Only Indirectly to the Viral Load. <i>Journal of Immunology</i> , 2002, 169, 3400-3406.	0.8	451
3	CD4+ T-cell depletion in HIV infection: Are we closer to understanding the cause?. <i>Nature Medicine</i> , 2002, 8, 319-323.	30.7	410
4	Pathogenesis of HIV infection: what the virus spares is as important as what it destroys. <i>Nature Medicine</i> , 2006, 12, 289-295.	30.7	409
5	Progressive CD4+ central memory T cell decline results in CD4+ effector memory insufficiency and overt disease in chronic SIV infection. <i>Journal of Experimental Medicine</i> , 2007, 204, 2171-2185.	8.5	257
6	Chemorepulsion by blood S1P regulates osteoclast precursor mobilization and bone remodeling in vivo. <i>Journal of Experimental Medicine</i> , 2010, 207, 2793-2798.	8.5	223
7	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. <i>Molecular Systems Biology</i> , 2020, 16, e9110.	7.2	178
8	Systems Biology in Immunology: A Computational Modeling Perspective. <i>Annual Review of Immunology</i> , 2011, 29, 527-585.	21.8	167
9	Inflammation-induced interstitial migration of effector CD4+ T cells is dependent on integrin β 1. <i>Nature Immunology</i> , 2013, 14, 949-958.	14.5	162
10	Spontaneous proliferation, a response of naive CD4 T cells determined by the diversity of the memory cell repertoire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3874-3879.	7.1	141
11	Tuning sensitivity to IL-4 and IL-13: differential expression of IL-4R α , IL-13R α 1, and β 2 regulates relative cytokine sensitivity. <i>Journal of Experimental Medicine</i> , 2008, 205, 2595-2608.	8.5	135
12	Key Role of Local Regulation in Chemosensing Revealed by a New Molecular Interaction-Based Modeling Method. <i>PLoS Computational Biology</i> , 2006, 2, e82.	3.2	119
13	Quantitative Imaging of Single Live Cells Reveals Spatiotemporal Dynamics of Multistep Signaling Events of Chemoattractant Gradient Sensing in <i>Dictyostelium</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 676-688.	2.1	118
14	Multiscale modeling for biologists. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2009, 1, 4-14.	6.6	102
15	Concomitant regulation of T-cell activation and homeostasis. <i>Nature Reviews Immunology</i> , 2004, 4, 387-395.	22.7	99
16	Distinct NF- κ B and MAPK Activation Thresholds Uncouple Steady-State Microbe Sensing from Anti-pathogen Inflammatory Responses. <i>Cell Systems</i> , 2016, 2, 378-390.	6.2	97
17	Computational modeling of cellular signaling processes embedded into dynamic spatial contexts. <i>Nature Methods</i> , 2012, 9, 283-289.	19.0	94
18	Redirecting cell-type specific cytokine responses with engineered interleukin-4 superkines. <i>Nature Chemical Biology</i> , 2012, 8, 990-998.	8.0	73

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19	Locally controlled inhibitory mechanisms are involved in eukaryotic GPCR-mediated chemosensing. <i>Journal of Cell Biology</i> , 2007, 178, 141-153.	5.2	60
20	Feedback regulation of proliferation vs. differentiation rates explains the dependence of CD4 T-cell expansion on precursor number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3318-3323.	7.1	44
21	Quantifying cellular interaction dynamics in 3D fluorescence microscopy data. <i>Nature Protocols</i> , 2009, 4, 1305-1311.	12.0	42
22	Coupling Mechanism of a GPCR and a Heterotrimeric G Protein During Chemoattractant Gradient Sensing in <i>Dictyostelium</i> . <i>Science Signaling</i> , 2010, 3, ra71.	3.6	40
23	Migrating Myeloid Cells Sense Temporal Dynamics of Chemoattractant Concentrations. <i>Immunity</i> , 2017, 47, 862-874.e3.	14.3	40
24	A negative-feedback loop maintains optimal chemokine concentrations for directional cell migration. <i>Nature Cell Biology</i> , 2020, 22, 266-273.	10.3	40
25	The Simmune Modeler visual interface for creating signaling networks based on bi-molecular interactions. <i>Bioinformatics</i> , 2013, 29, 1229-1230.	4.1	36
26	Cadherin-Mediated Cell Coupling Coordinates Chemokine Sensing across Collectively Migrating Cells. <i>Current Biology</i> , 2019, 29, 2570-2579.e7.	3.9	33
27	Opposing roles for RhoH GTPase during T-cell migration and activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10474-10479.	7.1	26
28	Anosmin1 Shuttles Fgf to Facilitate Its Diffusion, Increase Its Local Concentration, and Induce Sensory Organs. <i>Developmental Cell</i> , 2018, 46, 751-766.e12.	7.0	26
29	A hierarchy of affinities between cytokine receptors and the common gamma chain leads to pathway cross-talk. <i>Science Signaling</i> , 2018, 11, .	3.6	25
30	Computational reconstruction of cell and tissue surfaces for modeling and data analysis. <i>Nature Protocols</i> , 2009, 4, 1006-1012.	12.0	18
31	Exact Green's function of the reversible diffusion-influenced reaction for an isolated pair in two dimensions. <i>Journal of Chemical Physics</i> , 2012, 137, 054104.	3.0	18
32	Targeted Proteomics-Driven Computational Modeling of Macrophage S1P Chemosensing. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2661-2681.	3.8	16
33	Understanding diseases by mouse click: the promise and potential of computational approaches in Systems Biology. <i>Clinical and Experimental Immunology</i> , 2007, 149, 424-429.	2.6	15
34	SBML Level 3 package: Multistate, Multicomponent and Multicompartment Species, Version 1, Release 1. <i>Journal of Integrative Bioinformatics</i> , 2018, 15, .	1.5	14
35	NetworkViewer: visualizing biochemical reaction networks with embedded rendering of molecular interaction rules. <i>BMC Systems Biology</i> , 2014, 8, 70.	3.0	12
36	High Production Rates Sustain <i>In Vivo</i> Levels of PD-1 ^{high} Simian Immunodeficiency Virus-Specific CD8 T Cells in the Face of Rapid Clearance. <i>Journal of Virology</i> , 2013, 87, 9836-9844.	3.4	10

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37	Computational Modeling of Signaling Networks for Eukaryotic Chemosensing. <i>Methods in Molecular Biology</i> , 2009, 571, 507-526.	0.9	10
38	Theory of reversible diffusion-influenced reactions with non-Markovian dissociation in two space dimensions. <i>Journal of Chemical Physics</i> , 2013, 138, 104112.	3.0	8
39	Systems biology markup language (SBML) level 3 package: multistate, multicomponent and multicompartments species, version 1, release 2. <i>Journal of Integrative Bioinformatics</i> , 2020, 17, .	1.5	8
40	Mechanistic Models of Cellular Signaling, Cytokine Crosstalk, and Cell-Cell Communication in Immunology. <i>Frontiers in Immunology</i> , 2019, 10, 2268.	4.8	7
41	The area reactivity model of geminate recombination. <i>Journal of Chemical Physics</i> , 2014, 140, 114106.	3.0	6
42	Rate coefficients, binding probabilities, and related quantities for area reactivity models. <i>Journal of Chemical Physics</i> , 2014, 141, 194115.	3.0	3
43	Unified path integral approach to theories of diffusion-influenced reactions. <i>Physical Review E</i> , 2017, 96, 022151.	2.1	2
44	Using Python for Spatially Resolved Modeling with Simmune. <i>Methods in Molecular Biology</i> , 2019, 1945, 161-177.	0.9	2
45	Space-time histories approach to fast stochastic simulation of bimolecular reactions. <i>Journal of Chemical Physics</i> , 2021, 154, 164111.	3.0	2