

Martin Meier-Schellersheim

List of Publications by Year in descending order

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Version: 2024-02-01

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	Space-time histories approach to fast stochastic simulation of bimolecular reactions. Journal of Chemical Physics, 2021, 154, 164111.	3.0	2
2	A negative-feedback loop maintains optimal chemokine concentrations for directional cell migration. Nature Cell Biology, 2020, 22, 266-273.	10.3	40
3	Systems biology markup language (SBML) level 3 package: multistate, multicomponent and multicompartments species, version 1, release 2. Journal of Integrative Bioinformatics, 2020, 17, .	1.5	8
4	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. Molecular Systems Biology, 2020, 16, e9110.	7.2	178
5	Cadherin-Mediated Cell Coupling Coordinates Chemokine Sensing across Collectively Migrating Cells. Current Biology, 2019, 29, 2570-2579.e7.	3.9	33
6	Mechanistic Models of Cellular Signaling, Cytokine Crosstalk, and Cell-Cell Communication in Immunology. Frontiers in Immunology, 2019, 10, 2268.	4.8	7
7	Using Python for Spatially Resolved Modeling with Simmune. Methods in Molecular Biology, 2019, 1945, 161-177.	0.9	2
8	A hierarchy of affinities between cytokine receptors and the common gamma chain leads to pathway cross-talk. Science Signaling, 2018, 11, .	3.6	25
9	SBML Level 3 package: Multistate, Multicomponent and Multicompartments Species, Version 1, Release 1. Journal of Integrative Bioinformatics, 2018, 15, .	1.5	14
10	Anosmin1 Shuttles Fgf to Facilitate Its Diffusion, Increase Its Local Concentration, and Induce Sensory Organs. Developmental Cell, 2018, 46, 751-766.e12.	7.0	26
11	Unified path integral approach to theories of diffusion-influenced reactions. Physical Review E, 2017, 96, 022151.	2.1	2
12	Migrating Myeloid Cells Sense Temporal Dynamics of Chemoattractant Concentrations. Immunity, 2017, 47, 862-874.e3.	14.3	40
13	Distinct NF- κ B and MAPK Activation Thresholds Uncouple Steady-State Microbe Sensing from Anti-pathogen Inflammatory Responses. Cell Systems, 2016, 2, 378-390.	6.2	97
14	Targeted Proteomics-Driven Computational Modeling of Macrophage S1P Chemosensing. Molecular and Cellular Proteomics, 2015, 14, 2661-2681.	3.8	16
15	The area reactivity model of geminate recombination. Journal of Chemical Physics, 2014, 140, 114106.	3.0	6
16	NetworkViewer: visualizing biochemical reaction networks with embedded rendering of molecular interaction rules. BMC Systems Biology, 2014, 8, 70.	3.0	12
17	Rate coefficients, binding probabilities, and related quantities for area reactivity models. Journal of Chemical Physics, 2014, 141, 194115.	3.0	3
18	Inflammation-induced interstitial migration of effector CD4+ T cells is dependent on integrin β 1. Nature Immunology, 2013, 14, 949-958.	14.5	162

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19	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
20	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
21	The Simmune Modeler visual interface for creating signaling networks based on bi-molecular interactions. <i>Bioinformatics</i> , 2013, 29, 1229-1230.	4.1	36
22	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
23	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
24	Redirecting cell-type specific cytokine responses with engineered interleukin-4 superkines. <i>Nature Chemical Biology</i> , 2012, 8, 990-998.	8.0	73
25	Computational modeling of cellular signaling processes embedded into dynamic spatial contexts. <i>Nature Methods</i> , 2012, 9, 283-289.	19.0	94
26	Systems Biology in Immunology: A Computational Modeling Perspective. <i>Annual Review of Immunology</i> , 2011, 29, 527-585.	21.8	167
27	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
28	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
29	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
30	Multiscale modeling for biologists. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2009, 1, 4-14.	6.6	102
31	Sphingosine-1-phosphate mobilizes osteoclast precursors and regulates bone homeostasis. <i>Nature</i> , 2009, 458, 524-528.	27.8	486
32	Quantifying cellular interaction dynamics in 3D fluorescence microscopy data. <i>Nature Protocols</i> , 2009, 4, 1305-1311.	12.0	42
33	Computational reconstruction of cell and tissue surfaces for modeling and data analysis. <i>Nature Protocols</i> , 2009, 4, 1006-1012.	12.0	18
34	Computational Modeling of Signaling Networks for Eukaryotic Chemosensing. <i>Methods in Molecular Biology</i> , 2009, 571, 507-526.	0.9	10
35	Tuning sensitivity to IL-4 and IL-13: differential expression of IL-4R β , IL-13R α 1, and β c regulates relative cytokine sensitivity. <i>Journal of Experimental Medicine</i> , 2008, 205, 2595-2608.	8.5	135
36	Locally controlled inhibitory mechanisms are involved in eukaryotic GPCR-mediated chemosensing. <i>Journal of Cell Biology</i> , 2007, 178, 141-153.	5.2	60

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37	Progressive CD4+ centralâ€“memory T cell decline results in CD4+ effectorâ€“memory insufficiency and overt disease in chronic SIV infection. <i>Journal of Experimental Medicine</i> , 2007, 204, 2171-2185.	8.5	257
38	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
39	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
40	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
41	Quantitative Imaging of Single Live Cells Reveals Spatiotemporal Dynamics of Multistep Signaling Events of Chemoattractant Gradient Sensing in Dictyostelium. <i>Molecular Biology of the Cell</i> , 2005, 16, 676-688.	2.1	118
42	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
43	Concomitant regulation of T-cell activation and homeostasis. <i>Nature Reviews Immunology</i> , 2004, 4, 387-395.	22.7	99
44	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
45	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