

Till Bretschneider

List of Publications by Year in descending order

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53
papers

2,510
citations

218592

26
h-index

243529

44
g-index

58
all docs

58
docs citations

58
times ranked

2571
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameter Estimation in an SPDE Model for Cell Repolarization. SIAM-ASA Journal on Uncertainty Quantification, 2022, 10, 179-199.	1.1	11
2	The Amoebal Model for Macropinocytosis. Sub-Cellular Biochemistry, 2022, 98, 41-59.	1.0	3
3	A Curvature-Enhanced Random Walker Segmentation Method for Detailed Capture of 3D Cell Surface Membranes. IEEE Transactions on Medical Imaging, 2021, 40, 514-526.	5.4	8
4	Mathematical modelling in cell migration: tackling biochemistry in changing geometries. Biochemical Society Transactions, 2020, 48, 419-428.	1.6	2
5	Generative Adversarial Networks for Augmenting Training Data of Microscopic Cell Images. Frontiers in Computer Science, 2019, 1, .	1.7	26
6	QuimP: analyzing transmembrane signalling in highly deformable cells. Bioinformatics, 2018, 34, 2695-2697.	1.8	29
7	Image based modeling of bleb site selection. Scientific Reports, 2017, 7, 6692.	1.6	25
8	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. Npj Systems Biology and Applications, 2016, 2, 16011.	1.4	21
9	Progress and perspectives in signal transduction, actin dynamics, and movement at the cell and tissue level: lessons from <i>Dictyostelium</i> . Interface Focus, 2016, 6, 20160047.	1.5	41
10	Localizing the lipid products of PI3K ^{Î³} in neutrophils. Advances in Biological Regulation, 2016, 60, 36-45.	1.4	11
11	Employing Dictyostelium as an Advantageous 3Rs Model for Pharmacogenetic Research. Methods in Molecular Biology, 2016, 1407, 123-130.	0.4	8
12	Frequency modulated translocational oscillations of Nrf2, a transcription factor functioning like a wireless sensor. Biochemical Society Transactions, 2015, 43, 669-673.	1.6	15
13	Image based validation of dynamical models for cell reorientation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 471-480.	1.1	16
14	Conserved <i>Cis</i> -Regulatory Modules Control Robustness in <i>Msx1</i> Expression at Single-Cell Resolution. Genome Biology and Evolution, 2015, 7, 2762-2778.	1.1	0
15	Antioxidant response element cytoprotective response in aortic endothelial cells coordinated by transcription factor Nrf2 is regulated through frequency-modulated translocational oscillations. Atherosclerosis, 2015, 241, e2.	0.4	0
16	Frequency Modulated Translocational Oscillations of Nrf2 Mediate the Antioxidant Response Element Cytoprotective Transcriptional Response. Antioxidants and Redox Signaling, 2015, 23, 613-629.	2.5	63
17	Multi-scale non-local means with shape prior for enhancement of cell membrane images. , 2014, , .		0
18	Bleb-driven chemotaxis of <i>Dictyostelium</i> cells. Journal of Cell Biology, 2014, 204, 1027-1044.	2.3	95

#	ARTICLE	IF	CITATIONS
19	Phase locking and multiple oscillating attractors for the coupled mammalian clock and cell cycle. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9828-9833.	3.3	182
20	How blebs and pseudopods cooperate during chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11703-11708.	3.3	75
21	3D time series analysis of cell shape using Laplacian approaches. BMC Bioinformatics, 2013, 14, 296.	1.2	19
22	The distribution of Dishevelled in convergently extending mesoderm. Developmental Biology, 2013, 382, 496-503.	0.9	10
23	A novel human receptor involved in bitter tastant detection identified using the model organism <i>Dictyostelium discoideum</i> . Journal of Cell Science, 2013, 126, 5465-76.	1.2	13
24	Quantitative analysis of human ras localization and function in the fission yeast <i>Schizosaccharomyces pombe</i> . Yeast, 2013, 30, 145-156.	0.8	6
25	Fast random walker for neutrophil cell segmentation in 3D. , 2012, , .		3
26	Local Shape Representation in 3D: from Weighted Spherical Harmonics to Spherical Wavelet. , 2012, , .		3
27	Extracting Fluorescent Reporter Time Courses of Cell Lineages from High-Throughput Microscopy at Low Temporal Resolution. PLoS ONE, 2011, 6, e27886.	1.1	29
28	CellCut: A framework for interactive tracking of protein translocations between cell nucleus and cytoplasm. , 2011, , .		0
29	Cartography of spatio-temporal cellular dynamics. , 2011, , .		0
30	LineageTracker: A statistical scoring method for tracking cell lineages in large cell populations with low temporal resolution. , 2011, , .		2
31	Interactive segmentation of clustered cells via geodesic commute distance and constrained density weighted Nyström method. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 1137-1147.	1.1	16
32	High Resolution Tracking of Cell Membrane Dynamics in Moving Cells: an Electrifying Approach. Mathematical Modelling of Natural Phenomena, 2010, 5, 34-55.	0.9	30
33	Transformation from Spots to Waves in a Model of Actin Pattern Formation. Physical Review Letters, 2009, 102, 198103.	2.9	56
34	Analysis of cell movement by simultaneous quantification of local membrane displacement and fluorescent intensities using Quimp2. Cytoskeleton, 2009, 66, 156-165.	4.4	47
35	The Three-Dimensional Dynamics of Actin Waves, a Model of Cytoskeletal Self-Organization. Biophysical Journal, 2009, 96, 2888-2900.	0.2	182
36	Reversal of Cell Polarity and Actin-Myosin Cytoskeleton Reorganization under Mechanical and Chemical Stimulation. Biophysical Journal, 2008, 94, 1063-1074.	0.2	69

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37	Time-resolved responses to chemoattractant, characteristic of the front and tail of Dictyostelium cells. FEBS Letters, 2006, 580, 6707-6713.	1.3	30
38	The bundling activity of vasodilator-stimulated phosphoprotein is required for filopodium formation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7694-7699.	3.3	140
39	Formins and VASPs may co-operate in the formation of filopodia. Biochemical Society Transactions, 2005, 33, 1256-1259.	1.6	43
40	Formins and VASPs may co-operate in the formation of filopodia. Biochemical Society Transactions, 2005, 33, 1256.	1.6	50
41	The Diaphanous-related formin dDia2 is required for the formation and maintenance of filopodia. Nature Cell Biology, 2005, 7, 619-625.	4.6	233
42	The leading edge is a lipid diffusion barrier. Journal of Cell Science, 2005, 118, 4375-4380.	1.2	40
43	Subsecond reorganization of the actin network in cell motility and chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7601-7606.	3.3	104
44	Dynamic Actin Patterns and Arp2/3 Assembly at the Substrate-Attached Surface of Motile Cells. Current Biology, 2004, 14, 1-10.	1.8	256
45	Mobile Actin Clusters and Traveling Waves in Cells Recovering from Actin Depolymerization. Biophysical Journal, 2004, 87, 3493-3503.	0.2	179
46	Interactive Movement, Aggregation, and Swarm Dynamics. , 2003, , 221-241.		1
47	Simultaneous quantification of cell motility and protein-membrane-association using active contours. Cytoskeleton, 2002, 52, 221-230.	4.4	86
48	Dynamic organization of the actin system in the motile cells of Dictyostelium. Journal of Muscle Research and Cell Motility, 2002, 23, 639-649.	0.9	42
49	Differential localization of the Dictyostelium kinase DPAKa during cytokinesis and cell migration. Journal of Muscle Research and Cell Motility, 2002, 23, 751-763.	0.9	34
50	Polarity, Protrusion and Retraction Dynamics and Their Interplay during Keratinocyte Cell Migration. Experimental Cell Research, 2001, 270, 129-137.	1.2	26
51	A Model for Dictyostelium Slug Movement. Journal of Theoretical Biology, 1999, 199, 125-136.	0.8	35
52	A Model for Cell Movement During Dictyostelium Mound Formation. Journal of Theoretical Biology, 1997, 189, 41-51.	0.8	33
53	Three-dimensional scroll waves of cAMP could direct cell movement and gene expression in Dictyostelium slugs. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4387-4391.	3.3	61