

Alexandra Jilkine

List of Publications by Year in descending order

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17
papers

1,887
citations

759233

12
h-index

940533

16
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17
docs citations

17
times ranked

1898
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane Tension Maintains Cell Polarity by Confining Signals to the Leading Edge during Neutrophil Migration. <i>Cell</i> , 2012, 148, 175-188.	28.9	490
2	Wave-Pinning and Cell Polarity from a Bistable Reaction-Diffusion System. <i>Biophysical Journal</i> , 2008, 94, 3684-3697.	0.5	358
3	A Comparison of Mathematical Models for Polarization of Single Eukaryotic Cells in Response to Guided Cues. <i>PLoS Computational Biology</i> , 2011, 7, e1001121.	3.2	221
4	Polarization and Movement of Keratocytes: A Multiscale Modelling Approach. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1169-1211.	1.9	208
5	Quantitative Proteomic Analysis Using a MALDI Quadrupole Time-of-Flight Mass Spectrometer. <i>Analytical Chemistry</i> , 2001, 73, 978-986.	6.5	178
6	Mathematical Model for Spatial Segregation of the Rho-Family GTPases Based on Inhibitory Crosstalk. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 1943-1978.	1.9	130
7	Asymptotic and Bifurcation Analysis of Wave-Pinning in a Reaction-Diffusion Model for Cell Polarization. <i>SIAM Journal on Applied Mathematics</i> , 2011, 71, 1401-1427.	1.8	108
8	A Density-Dependent Switch Drives Stochastic Clustering and Polarization of Signaling Molecules. <i>PLoS Computational Biology</i> , 2011, 7, e1002271.	3.2	56
9	Effect of Dedifferentiation on Time to Mutation Acquisition in Stem Cell-Driven Cancers. <i>PLoS Computational Biology</i> , 2014, 10, e1003481.	3.2	53
10	The role of cell location and spatial gradients in the evolutionary dynamics of colon and intestinal crypts. <i>Biology Direct</i> , 2016, 11, 42.	4.6	19
11	Pattern formation in a coupled membrane-bulk reaction-diffusion model for intracellular polarization and oscillations. <i>Journal of Theoretical Biology</i> , 2020, 497, 110242.	1.7	18
12	Control of cell fraction and population recovery during tissue regeneration in stem cell lineages. <i>Journal of Theoretical Biology</i> , 2018, 445, 33-50.	1.7	17
13	Mathematical Models of Stem Cell Differentiation and Dedifferentiation. <i>Current Stem Cell Reports</i> , 2019, 5, 66-72.	1.6	12
14	Modeling the Dynamics of Cdc42 Oscillation in Fission Yeast. <i>Biophysical Journal</i> , 2018, 114, 711-722.	0.5	10
15	Comparison of Deterministic and Stochastic Regime in a Model for Cdc42 Oscillations in Fission Yeast. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 1268-1302.	1.9	8
16	Distinguishing between multiple mathematical models of neural stem cell quiescence and activation during age-related neural stem cell decline in neurogenesis. <i>Mathematical Biosciences</i> , 2022, 346, 108807.	1.9	1
17	Size flips symmetry switch. <i>Nature Physics</i> , 2019, 15, 987-987.	16.7	0