Alexandra Jilkine

List of Publications by Year
in descending order

17 papers	1,887 citations	759233 12 h-index	940533 16 g-index
17 all docs	17 docs citations	17 times ranked	1898 citing authors

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