Karen M Page

List of Publications by Year
in descending order

37 papers	1,698 citations	471509 17 h-index	434195 31 g-index
44 all docs	44 docs citations	44 times ranked	2041 citing authors

#	Article	IF	Citations
1	Gene Regulatory Logic for Reading the Sonic Hedgehog Signaling Gradient in the Vertebrate Neural Tube. Cell, 2012, 148, 273-284.	28.9	417
2	Unifying Evolutionary Dynamics. Journal of Theoretical Biology, 2002, 219, 93-98.	1.7	161
3	Ptch1 and Gli regulate Shh signalling dynamics via multiple mechanisms. Nature Communications, 2015, 6, 6709.	12.8	123
4	Empathy Leads to Fairness. Bulletin of Mathematical Biology, 2002, 64, 1101-1116.	1.9	104
5	Complex pattern formation in reaction–diffusion systems with spatially varying parameters. Physica D: Nonlinear Phenomena, 2005, 202, 95-115.	2.8	104
6	Combining a Toggle Switch and a Repressilator within the AC-DC Circuit Generates Distinct Dynamical Behaviors. Cell Systems, 2018, 6, 521-530.e3.	6.2	96
7	Diversity, Dilemmas, and Monopolies of Niche Construction. American Naturalist, 2009, 173, 26-40.	2.1	93
8	A theoretical framework for the regulation of Shh morphogen-controlled gene expression. Development (Cambridge), 2014, 141, 3868-3878.	2.5	70
9	Directional Collective Cell Migration Emerges as a Property of Cell Interactions. PLoS ONE, 2014, 9, e104969.	2.5	68
10	Pattern formation in spatially heterogeneous Turing reaction–diffusion models. Physica D: Nonlinear Phenomena, 2003, 181, 80-101.	2.8	67
11	A gene regulatory motif that generates oscillatory or multiway switch outputs. Journal of the Royal Society Interface, 2013, 10, 20120826.	3.4	61
12	Intrinsic Noise Profoundly Alters the Dynamics and Steady State of Morphogen-Controlled Bistable Genetic Switches. PLoS Computational Biology, 2016, 12, e1005154.	3.2	60
13	Mathematical models of cancer dormancy. Leukemia and Lymphoma, 2005, 46, 313-327.	1.3	48
14	Breast Cancer Dormancy Can Be Maintained by Small Numbers of Micrometastases. Cancer Research, 2010, 70, 4310-4317.	0.9	42
15	Mathematical models of the VEGF receptor and its role in cancer therapy. Journal of the Royal Society Interface, 2007, 4, 283-304.	3.4	24
16	Discrete free-boundary reaction-diffusion model of diatom pore occlusions. Plant Ecology and Evolution, 2010, 143, 297-306.	0.7	19
17	Gene expression dysregulation domains are not a specific feature of Down syndrome. Nature Communications, 2019, 10, 2489.	12.8	19
18	Neuronal differentiation influences progenitor arrangement in the vertebrate neuroepithelium. Development (Cambridge), 2019, 146, .	2.5	19

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19	Stochastic models of receptor oligomerization by bivalent ligand. Journal of the Royal Society Interface, 2006, 3, 545-559.	3.4	18
20	Minimum Action Path Theory Reveals the Details of Stochastic Transitions Out of Oscillatory States. Physical Review Letters, 2018, 120, 128102.	7.8	15
21	Degradation rate uniformity determines success of oscillations in repressive feedback regulatory networks. Journal of the Royal Society Interface, 2018, 15, 20180157.	3.4	13
22	A Model of Primitive Streak Initiation in the Chick Embryo. Journal of Theoretical Biology, 2001, 208, 419-438.	1.7	12
23	â€˜Neighbourhood watchâ€™ model: embryonic epiblast cells assess positional information in relation to their neighbours. Development (Cambridge), 2022, 149, .	2.5	8
24	Mathematical models of the fate of lymphoma B cells after antigen receptor ligation with specific antibodies. Journal of Theoretical Biology, 2006, 240, 54-71.	1.7	7
25	The Immuno-Dynamics of Conflict Intervention in Social Systems. PLoS ONE, 2011, 6, e22709.	2.5	6
26	Evolution of cooperation in an epithelium. Journal of the Royal Society Interface, 2019, 16, 20180918.	3.4	5
27	Oscillations in well-mixed, deterministic feedback systems: Beyond ring oscillators. Journal of Theoretical Biology, 2019, 481, 44-53.	1.7	5
28	Structure modeling hints at a granular organization of the Golgi ribbon. BMC Biology, 2022, 20, 111.	3.8	4
29	Cooperative success in epithelial public goods games. Journal of Theoretical Biology, 2021, 528, 110838.	1.7	3
30	Speed of reaction diffusion in embryogenesis. Physical Review E, 2007, 76, 011902.	2.1	2
31	Dying to cooperate: the role of environmental harshness in human collaboration. Behavioral Ecology, 2022, 33, 190-201.	2.2	2
32	Language learning: how much evidence does a child need in order to learn to speak grammatically?. Bulletin of Mathematical Biology, 2004, 66, 651-662.	1.9	0
33	18-P002 A Sonic Hedgehog controlled gene network in the neural tube acts as a multistate switch to generate progenitors of distinct neuronal subtypes. Mechanisms of Development, 2009, 126, S285.	1.7	0
34	Mathematical models help explain experimental data. Response to â€˜Transcriptional interpretation of Shh morphogen signaling: computational modeling validates empirically established modelsâ€™. Development (Cambridge), 2016, 143, 1640-1643.	2.5	0
35	de la Cruz etÂal. Reply. Physical Review Letters, 2019, 122, 059802.	7.8	0
36	Analysis of BCR-ABL1 Tyrosine Kinase Domain Mutations In Primitive Chronic Myeloid Leukemia Cells Identifies a Unique Mutator Phenotype.. Blood, 2010, 116, 3397-3397.	1.4	0

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37	Mathematical Modeling of the VEGF Receptor. , 2012, , 3-35.		0