

Heather A Harrington

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,632
citations

471371

17
h-index

360920

35
g-index

37
all docs

37
docs citations

37
times ranked

2251
citing authors

#	ARTICLE	IF	CITATIONS
1	A roadmap for the computation of persistent homology. EPJ Data Science, 2017, 6, 17.	1.5	371
2	Coronary Intraplaque Hemorrhage Evokes a Novel Atheroprotective Macrophage Phenotype. American Journal of Pathology, 2009, 174, 1097-1108.	1.9	284
3	A blood atlas of COVID-19 defines hallmarks of disease severity and specificity. Cell, 2022, 185, 916-938.e58.	13.5	164
4	Clinical drug resistance linked to interconvertible phenotypic and functional states of tumor-propagating cells in multiple myeloma. Blood, 2013, 121, 318-328.	0.6	112
5	Nuclear to cytoplasmic shuttling of ERK promotes differentiation of muscle stem/progenitor cells. Development (Cambridge), 2014, 141, 2611-2620.	1.2	76
6	Persistent homology of time-dependent functional networks constructed from coupled time series. Chaos, 2017, 27, 047410.	1.0	73
7	Cellular Compartments Cause Multistability and Allow Cells to Process More Information. Biophysical Journal, 2013, 104, 1824-1831.	0.2	52
8	Algebraic Systems Biology: A Case Study for the Wnt Pathway. Bulletin of Mathematical Biology, 2016, 78, 21-51.	0.9	48
9	The role of the Hes1 crosstalk hub in Notch-Wnt interactions of the intestinal crypt. PLoS Computational Biology, 2017, 13, e1005400.	1.5	44
10	Bistability in Apoptosis by Receptor Clustering. PLoS Computational Biology, 2010, 6, e1000956.	1.5	43
11	Multiparameter persistent homology landscapes identify immune cell spatial patterns in tumors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	33
12	Skin Barrier Homeostasis in Atopic Dermatitis: Feedback Regulation of Kallikrein Activity. PLoS ONE, 2011, 6, e19895.	1.1	30
13	Parameter-free methods distinguish Wnt pathway models and guide design of experiments. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2652-2657.	3.3	29
14	Parameter-free model discrimination criterion based on steady-state coplanarity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15746-15751.	3.3	28
15	Geometric anomaly detection in data. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19664-19669.	3.3	22
16	Topological data analysis distinguishes parameter regimes in the Anderson-Chaplain model of angiogenesis. PLoS Computational Biology, 2021, 17, e1009094.	1.5	21
17	Nanog Fluctuations in Embryonic Stem Cells Highlight the Problem of Measurement in Cell Biology. Biophysical Journal, 2017, 112, 2641-2652.	0.2	20
18	Stratifying Multiparameter Persistent Homology. SIAM Journal on Applied Algebra and Geometry, 2019, 3, 439-471.	0.9	20

#	ARTICLE	IF	CITATIONS
19	Role of seasonality on predator-prey-subsidy population dynamics. <i>Journal of Theoretical Biology</i> , 2016, 396, 163-181.	0.8	18
20	Topological data analysis of task-based fMRI data from experiments on schizophrenia. <i>Journal of Physics Complexity</i> , 2021, 2, 035006.	0.9	17
21	Numerical algebraic geometry for model selection and its application to the life sciences. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160256.	1.5	14
22	Commentary: Teach network science to teenagers. <i>Network Science</i> , 2013, 1, 226-247.	0.8	13
23	Quantification of vascular networks in photoacoustic mesoscopy. <i>Photoacoustics</i> , 2022, 26, 100357.	4.4	13
24	Multiscale topology characterizes dynamic tumor vascular networks. <i>Science Advances</i> , 2022, 8, .	4.7	12
25	Linear Compartmental Models: Input-Output Equations and Operations That Preserve Identifiability. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 1423-1447.	0.8	11
26	Reduction of dimension for nonlinear dynamical systems. <i>Nonlinear Dynamics</i> , 2017, 88, 715-734.	2.7	9
27	Joining and decomposing reaction networks. <i>Journal of Mathematical Biology</i> , 2020, 80, 1683-1731.	0.8	9
28	Epithelial-Mesenchymal Transition in Metastatic Cancer Cell Populations Affects Tumor Dormancy in a Simple Mathematical Model. <i>Biomedicines</i> , 2014, 2, 384-402.	1.4	6
29	Phosphorelay of non-orthodox two component systems functions through a bi-molecular mechanism in vivo: the case of ArcB. <i>Molecular BioSystems</i> , 2015, 11, 1348-1359.	2.9	6
30	Coloured Noise from Stochastic Inflows in Reaction-Diffusion Systems. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 44.	0.9	6
31	Topological approximate Bayesian computation for parameter inference of an angiogenesis model. <i>Bioinformatics</i> , 2022, 38, 2529-2535.	1.8	6
32	Grid diagrams as tools to investigate knot spaces and topoisomerase-mediated simplification of DNA topology. <i>Science Advances</i> , 2020, 6, eaay1458.	4.7	4
33	Tensor clustering with algebraic constraints gives interpretable groups of crosstalk mechanisms in breast cancer. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180661.	1.5	3
34	Graph-facilitated resonant mode counting in stochastic interaction networks. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170447.	1.5	2
35	A Parameter-Free Model Comparison Test Using Differential Algebra. <i>Complexity</i> , 2019, 2019, 1-15.	0.9	2