

Heather A Harrington

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

960
citations

14
h-index

30
g-index

37
ext. papers

1,305
ext. citations

6.5
avg, IF

4.3
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 34 | Coronary intraplaque hemorrhage evokes a novel atheroprotective macrophage phenotype. <i>American Journal of Pathology</i> , 2009 , 174, 1097-108 | 5.8 | 240 |
| 33 | A roadmap for the computation of persistent homology. <i>EPJ Data Science</i> , 2017 , 6, 17 | 3.4 | 188 |
| 32 | Clinical drug resistance linked to interconvertible phenotypic and functional states of tumor-propagating cells in multiple myeloma. <i>Blood</i> , 2013 , 121, 318-28 | 2.2 | 100 |
| 31 | Nuclear to cytoplasmic shuttling of ERK promotes differentiation of muscle stem/progenitor cells. <i>Development (Cambridge)</i> , 2014 , 141, 2611-20 | 6.6 | 59 |
| 30 | Persistent homology of time-dependent functional networks constructed from coupled time series. <i>Chaos</i> , 2017 , 27, 047410 | 3.3 | 51 |
| 29 | Cellular compartments cause multistability and allow cells to process more information. <i>Biophysical Journal</i> , 2013 , 104, 1824-31 | 2.9 | 35 |
| 28 | Algebraic Systems Biology: A Case Study for the Wnt Pathway. <i>Bulletin of Mathematical Biology</i> , 2016 , 78, 21-51 | 2.1 | 34 |
| 27 | Bistability in apoptosis by receptor clustering. <i>PLoS Computational Biology</i> , 2010 , 6, e1000956 | 5 | 29 |
| 26 | The role of the Hes1 crosstalk hub in Notch-Wnt interactions of the intestinal crypt. <i>PLoS Computational Biology</i> , 2017 , 13, e1005400 | 5 | 29 |
| 25 | Parameter-free methods distinguish Wnt pathway models and guide design of experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2652-7 | 11.5 | 23 |
| 24 | Skin barrier homeostasis in atopic dermatitis: feedback regulation of kallikrein activity. <i>PLoS ONE</i> , 2011 , 6, e19895 | 3.7 | 22 |
| 23 | Parameter-free model discrimination criterion based on steady-state coplanarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15746-51 | 11.5 | 20 |
| 22 | A blood atlas of COVID-19 defines hallmarks of disease severity and specificity.. <i>Cell</i> , 2022 , 185, 916-938, e58 | 36.8 | 17 |
| 21 | Role of seasonality on predator-prey-subsidy population dynamics. <i>Journal of Theoretical Biology</i> , 2016 , 396, 163-81 | 2.3 | 15 |
| 20 | Nanog Fluctuations in Embryonic Stem Cells Highlight the Problem of Measurement in Cell Biology. <i>Biophysical Journal</i> , 2017 , 112, 2641-2652 | 2.9 | 13 |
| 19 | Stratifying Multiparameter Persistent Homology. <i>SIAM Journal on Applied Algebra and Geometry</i> , 2019 , 3, 439-471 | 1.5 | 9 |
| 18 | Commentary: Teach network science to teenagers. <i>Network Science</i> , 2013 , 1, 226-247 | 2.9 | 9 |

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|----|--|------|---|
| 17 | Numerical algebraic geometry for model selection and its application to the life sciences. <i>Journal of the Royal Society Interface</i> , 2016 , 13, | 4.1 | 9 |
| 16 | Linear Compartmental Models: Input-Output Equations and Operations That Preserve Identifiability. <i>SIAM Journal on Applied Mathematics</i> , 2019 , 79, 1423-1447 | 1.8 | 8 |
| 15 | Reduction of dimension for nonlinear dynamical systems. <i>Nonlinear Dynamics</i> , 2017 , 88, 715-734 | 5 | 7 |
| 14 | Joining and decomposing reaction networks. <i>Journal of Mathematical Biology</i> , 2020 , 80, 1683-1731 | 2 | 6 |
| 13 | Multiparameter persistent homology landscapes identify immune cell spatial patterns in tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 5 |
| 12 | Geometric anomaly detection in data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19664-19669 | 11.5 | 5 |
| 11 | 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, 1348-59 | | 4 |
| 10 | Epithelial-Mesenchymal Transition in Metastatic Cancer Cell Populations Affects Tumor Dormancy in a Simple Mathematical Model. <i>Biomedicines</i> , 2014 , 2, 384-402 | 4.8 | 4 |
| 9 | A blood atlas of COVID-19 defines hallmarks of disease severity and specificity | | 4 |
| 8 | 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 | 4.1 | 3 |
| 7 | Topological data analysis of task-based fMRI data from experiments on schizophrenia. <i>Journal of Physics Complexity</i> , 2021 , 2, 035006 | 1.8 | 3 |
| 6 | A Parameter-Free Model Comparison Test Using Differential Algebra. <i>Complexity</i> , 2019 , 2019, 1-15 | 1.6 | 2 |
| 5 | Grid diagrams as tools to investigate knot spaces and topoisomerase-mediated simplification of DNA topology. <i>Science Advances</i> , 2020 , 6, eaay1458 | 14.3 | 2 |
| 4 | Coloured Noise from Stochastic Inflows in Reaction-Diffusion Systems. <i>Bulletin of Mathematical Biology</i> , 2020 , 82, 44 | 2.1 | 2 |
| 3 | Graph-facilitated resonant mode counting in stochastic interaction networks. <i>Journal of the Royal Society Interface</i> , 2017 , 14, | 4.1 | 2 |
| 2 | Topological data analysis distinguishes parameter regimes in the Anderson-Chaplain model of angiogenesis. <i>PLoS Computational Biology</i> , 2021 , 17, e1009094 | 5 | 1 |
| 1 | Quantification of vascular networks in photoacoustic mesoscopy.. <i>Photoacoustics</i> , 2022 , 26, 100357 | 9 | 0 |