

Bryan C Daniels

List of Publications by Year in Descending Order

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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.

27
papers

852
citations

14
h-index

29
g-index

30
ext. papers

1,126
ext. citations

6.2
avg, IF

4.46
L-index

#	Paper	IF	Citations
27	Discovering sparse control strategies in neural activity. <i>PLoS Computational Biology</i> , 2022 , 18, e1010072	5	0
26	Innovations are disproportionately likely in the periphery of a scientific network. <i>Theory in Biosciences</i> , 2021 , 140, 391-399	1.3	3
25	Quantifying the impact of network structure on speed and accuracy in collective decision-making. <i>Theory in Biosciences</i> , 2021 , 140, 379-390	1.3	0
24	The basis of easy controllability in Boolean networks. <i>Nature Communications</i> , 2021 , 12, 5227	17.4	3
23	Tyramine and its receptor TYR1 linked behavior QTL to reproductive physiology in honey bee workers (<i>Apis mellifera</i>). <i>Journal of Insect Physiology</i> , 2020 , 126, 104093	2.4	1
22	Scaling theory of armed-conflict avalanches. <i>Physical Review E</i> , 2020 , 102, 042312	2.4	4
21	Quantifying Dynamical High-Order Interdependencies From the O-Information: An Application to Neural Spiking Dynamics. <i>Frontiers in Physiology</i> , 2020 , 11, 595736	4.6	9
20	Network Analysis for the Digital Humanities: Principles, Problems, Extensions. <i>Isis</i> , 2019 , 110, 538-554	0.4	4
19	Individual and collective encoding of risk in animal groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20556-20561	11.5	39
18	Automated, predictive, and interpretable inference of escape dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7226-7231	11.5	12
17	Convenient Interface to Inverse Ising (ConIII): A Python 3 Package for Solving Ising-Type Maximum Entropy Models. <i>Journal of Open Research Software</i> , 2019 , 7,	2.3	4
16	Locating Decision-Making Circuits in a Heterogeneous Neural Network. <i>Frontiers in Applied Mathematics and Statistics</i> , 2018 , 4,	2.2	1
15	Criticality Distinguishes the Ensemble of Biological Regulatory Networks. <i>Physical Review Letters</i> , 2018 , 121, 138102	7.4	42
14	Control of finite critical behaviour in a small-scale social system. <i>Nature Communications</i> , 2017 , 8, 14301	17.4	29
13	Collective memory in primate conflict implied by temporal scaling collapse. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	3
12	Dual Coding Theory Explains Biphasic Collective Computation in Neural Decision-Making. <i>Frontiers in Neuroscience</i> , 2017 , 11, 313	5.1	19
11	Quantifying collectivity. <i>Current Opinion in Neurobiology</i> , 2016 , 37, 106-113	7.6	22

10	Automated adaptive inference of phenomenological dynamical models. <i>Nature Communications</i> , 2015 , 6, 8133	17.4	91
9	Perspective: Sloppiness and emergent theories in physics, biology, and beyond. <i>Journal of Chemical Physics</i> , 2015 , 143, 010901	3.9	151
8	Efficient inference of parsimonious phenomenological models of cellular dynamics using S-systems and alternating regression. <i>PLoS ONE</i> , 2015 , 10, e0119821	3.7	43
7	Sparse code of conflict in a primate society. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14259-64	11.5	14
6	Nucleation at the DNA supercoiling transition. <i>Physical Review E</i> , 2011 , 83, 041924	2.4	16
5	Discontinuities at the DNA supercoiling transition. <i>Physical Review E</i> , 2009 , 80, 040901	2.4	26
4	Abrupt buckling transition observed during the plectoneme formation of individual DNA molecules. <i>Physical Review Letters</i> , 2008 , 100, 148301	7.4	149
3	Sloppiness, robustness, and evolvability in systems biology. <i>Current Opinion in Biotechnology</i> , 2008 , 19, 389-95	11.4	130
2	Absence of Kondo lattice coherence effects in Ce _{0.6} La _{0.4} Pb ₃ : A magnetic-field study. <i>Journal of Applied Physics</i> , 2005 , 97, 10A510	2.5	2
1	Synchronization of coupled rotators: Josephson junction ladders and the locally coupled Kuramoto model. <i>Physical Review E</i> , 2003 , 67, 026216	2.4	34