Bryan C Daniels

List of Publications by Citations

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	Perspective: Sloppiness and emergent theories in physics, biology, and beyond. *Journal of Chemical Physics*, **2015**, 143, 010901	3.9	151
26	Abrupt buckling transition observed during the plectoneme formation of individual DNA molecules. *Physical Review Letters*, **2008**, 100, 148301	7.4	149
25	Sloppiness, robustness, and evolvability in systems biology. *Current Opinion in Biotechnology*, **2008**, 19, 389-95	11.4	130
24	Automated adaptive inference of phenomenological dynamical models. *Nature Communications*, **2015**, 6, 8133	17.4	91
23	Efficient inference of parsimonious phenomenological models of cellular dynamics using S-systems and alternating regression. *PLoS ONE*, **2015**, 10, e0119821	3.7	43
22	Criticality Distinguishes the Ensemble of Biological Regulatory Networks. *Physical Review Letters*, **2018**, 121, 138102	7.4	42
21	Individual and collective encoding of risk in animal groups. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 20556-20561	11.5	39
20	Synchronization of coupled rotators: Josephson junction ladders and the locally coupled Kuramoto model. *Physical Review E*, **2003**, 67, 026216	2.4	34
19	Control of finite critical behaviour in a small-scale social system. *Nature Communications*, **2017**, 8, 14301	17.4	29
18	Discontinuities at the DNA supercoiling transition. *Physical Review E*, **2009**, 80, 040901	2.4	26
17	Quantifying collectivity. *Current Opinion in Neurobiology*, **2016**, 37, 106-113	7.6	22
16	Dual Coding Theory Explains Biphasic Collective Computation in Neural Decision-Making. *Frontiers in Neuroscience*, **2017**, 11, 313	5.1	19
15	Nucleation at the DNA supercoiling transition. *Physical Review E*, **2011**, 83, 041924	2.4	16
14	Sparse code of conflict in a primate society. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14259-64	11.5	14
13	Automated, predictive, and interpretable inference of escape dynamics. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7226-7231	11.5	12
12	Quantifying Dynamical High-Order Interdependencies From the O-Information: An Application to Neural Spiking Dynamics. *Frontiers in Physiology*, **2020**, 11, 595736	4.6	9
11	Network Analysis for the Digital Humanities: Principles, Problems, Extensions. *Isis*, **2019**, 110, 538-554	0.4	4

List of Publications

10	Convenient Interface to Inverse Ising (ConIII): A Python 3 Package for Solving Ising-Type Maximum Entropy Models. *Journal of Open Research Software*, **2019**, 7,	2.3	4
9	Scaling theory of armed-conflict avalanches. *Physical Review E*, **2020**, 102, 042312	2.4	4
8	Collective memory in primate conflict implied by temporal scaling collapse. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	3
7	Innovations are disproportionately likely in the periphery of a scientific network. *Theory in Biosciences*, **2021**, 140, 391-399	1.3	3
6	The basis of easy controllability in Boolean networks. *Nature Communications*, **2021**, 12, 5227	17.4	3
5	Absence of Kondo lattice coherence effects in Ce0.6La0.4Pb3: A magnetic-field study. *Journal of Applied Physics*, **2005**, 97, 10A510	2.5	2
4	Locating Decision-Making Circuits in a Heterogeneous Neural Network. *Frontiers in Applied Mathematics and Statistics*, **2018**, 4,	2.2	1
3	Tyramine and its receptor TYR1 linked behavior QTL to reproductive physiology in honey bee workers (Apis mellifera). *Journal of Insect Physiology*, **2020**, 126, 104093	2.4	1
2	Quantifying the impact of network structure on speed and accuracy in collective decision-making. *Theory in Biosciences*, **2021**, 140, 379-390	1.3	0
1	Discovering sparse control strategies in neural activity. *PLoS Computational Biology*, **2022**, 18, e1010072	5	0