Bryan C Daniels

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5205418/publications.pdf

Version: 2024-02-01

29	1,300	566801	525886
papers	citations	15 h-index	27 g-index

30	30	30	1373
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perspective: Sloppiness and emergent theories in physics, biology, and beyond. Journal of Chemical Physics, 2015, 143, 010901.	1.2	224
2	Abrupt Buckling Transition Observed during the Plectoneme Formation of Individual DNA Molecules. Physical Review Letters, 2008, 100, 148301.	2.9	181
3	Sloppiness, robustness, and evolvability in systems biology. Current Opinion in Biotechnology, 2008, 19, 389-395.	3.3	170
4	Automated adaptive inference of phenomenological dynamical models. Nature Communications, 2015, 6, 8133.	5.8	138
5	Criticality Distinguishes the Ensemble of Biological Regulatory Networks. Physical Review Letters, 2018, 121, 138102.	2.9	91
6	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.	3.3	77
7	Efficient Inference of Parsimonious Phenomenological Models of Cellular Dynamics Using S-Systems and Alternating Regression. PLoS ONE, 2015, 10, e0119821.	1.1	66
8	Control of finite critical behaviour in a small-scale social system. Nature Communications, 2017, 8, 14301.	5.8	44
9	Synchronization of coupled rotators: Josephson junction ladders and the locally coupled Kuramoto model. Physical Review E, 2003, 67, 026216.	0.8	38
10	Quantifying collectivity. Current Opinion in Neurobiology, 2016, 37, 106-113.	2.0	36
11	Discontinuities at the DNA supercoiling transition. Physical Review E, 2009, 80, 040901.	0.8	30
12	Quantifying Dynamical High-Order Interdependencies From the O-Information: An Application to Neural Spiking Dynamics. Frontiers in Physiology, 2020, 11, 595736.	1.3	25
13	Dual Coding Theory Explains Biphasic Collective Computation in Neural Decision-Making. Frontiers in Neuroscience, 2017, 11, 313.	1.4	24
14	Nucleation at the DNA supercoiling transition. Physical Review E, 2011, 83, 041924.	0.8	20
15	Sparse code of conflict in a primate society. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14259-14264.	3.3	20
16	The basis of easy controllability in Boolean networks. Nature Communications, 2021, 12, 5227.	5.8	20
17	Subcritical escape waves in schooling fish. Science Advances, 2022, 8, .	4.7	18
18	Automated, predictive, and interpretable inference of Caenorhabditis elegans escape dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7226-7231.	3.3	17

#	Article	IF	Citations
19	Network Analysis for the Digital Humanities: Principles, Problems, Extensions. Isis, 2019, 110, 538-554.	0.1	12
20	Tyramine and its receptor TYR1 linked behavior QTL to reproductive physiology in honey bee workers (Apis mellifera). Journal of Insect Physiology, 2020, 126, 104093.	0.9	12
21	Innovations are disproportionately likely in the periphery of a scientific network. Theory in Biosciences, 2021, 140, 391-399.	0.6	9
22	Scaling theory of armed-conflict avalanches. Physical Review E, 2020, 102, 042312.	0.8	6
23	Quantifying the impact of network structure on speed and accuracy in collective decision-making. Theory in Biosciences, 2021, 140, 379-390.	0.6	6
24	Collective memory in primate conflict implied by temporal scaling collapse. Journal of the Royal Society Interface, 2017, 14, 20170223.	1.5	5
25	Convenient Interface to Inverse Ising (ConIII): A Python 3 Package for Solving Ising-Type Maximum Entropy Models. Journal of Open Research Software, 2019, 7, .	2.7	5
26	Absence of Kondo lattice coherence effects in Ce0.6La0.4Pb3: A magnetic-field study. Journal of Applied Physics, 2005, 97, 10A510.	1.1	2
27	Locating Decision-Making Circuits in a Heterogeneous Neural Network. Frontiers in Applied Mathematics and Statistics, 2018, 4, .	0.7	2
28	Introduction to the special issue: quantifying collectivity. Theory in Biosciences, 2021, 140, 321-323.	0.6	1
29	Discovering sparse control strategies in neural activity. PLoS Computational Biology, 2022, 18, e1010072.	1.5	1