William Ott

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5803032/publications.pdf

Version: 2024-02-01

27 papers	758 citations	623734 14 h-index	580821 25 g-index
28 all docs	28 docs citations	28 times ranked	808 citing authors

#	Article	IF	Citations
1	Tuning the dynamic range of bacterial promoters regulated by ligand-inducible transcription factors. Nature Communications, 2018, 9, 64.	12.8	121
2	Stochastic Delay Accelerates Signaling in Gene Networks. PLoS Computational Biology, 2011, 7, e1002264.	3.2	71
3	Engineered temperature compensation in a synthetic genetic clock. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 972-977.	7.1	70
4	Prevalence. Bulletin of the American Mathematical Society, 2005, 42, 263-291.	1.5	67
5	Transcriptional Delay Stabilizes Bistable Gene Networks. Physical Review Letters, 2013, 111, 058104.	7.8	60
6	Spatiotemporal Dynamics of Synthetic Microbial Consortia in Microfluidic Devices. ACS Synthetic Biology, 2019, 8, 2051-2058.	3.8	54
7	Majority sensing in synthetic microbial consortia. Nature Communications, 2020, 11, 3659.	12.8	47
8	Modeling mechanical interactions in growing populations of rod-shaped bacteria. Physical Biology, 2017, 14, 055001.	1.8	31
9	Bayesian inference of distributed time delay in transcriptional and translational regulation. Bioinformatics, 2020, 36, 586-593.	4.1	27
10	Modeling delay in genetic networks: From delay birth-death processes to delay stochastic differential equations. Journal of Chemical Physics, 2014, 140, 204108.	3.0	26
11	From Limit Cycles to Strange Attractors. Communications in Mathematical Physics, 2010, 296, 215-249.	2.2	22
12	Heterogeneity Improves Speed and Accuracy in Social Networks. Physical Review Letters, 2020, 125, 218302.	7.8	22
13	Emergent spatiotemporal population dynamics with cell-length control of synthetic microbial consortia. PLoS Computational Biology, 2021, 17, e1009381.	3.2	20
14	Learning about Reality from Observation. SIAM Journal on Applied Dynamical Systems, 2003, 2, 297-322.	1.6	19
15	Predicting Transcriptional Output of Synthetic Multi-input Promoters. ACS Synthetic Biology, 2018, 7, 1834-1843.	3.8	16
16	Memory loss for time-dependent piecewise expanding systems in higher dimension. Mathematical Research Letters, 2013, 20, 141-161.	0.5	15
17	A kinetic theory approach for 2D crowd dynamics with emotional contagion. Mathematical Models and Methods in Applied Sciences, 2021, 31, 1137-1162.	3.3	14
18	The effect of projections on fractal sets and measures in Banach spaces. Ergodic Theory and Dynamical Systems, 2006, 26, 869.	0.6	10

#	Article	IF	Citations
19	Timing and Variability of Galactose Metabolic Gene Activation Depend on the Rate of Environmental Change. PLoS Computational Biology, 2015, 11, e1004399.	3.2	10
20	Strange Attractors in Periodically-Kicked Degenerate Hopf Bifurcations. Communications in Mathematical Physics, 2008, 281, 775-791.	2.2	9
21	Delay-induced uncertainty for a paradigmatic glucoseâ€“insulin model. Chaos, 2021, 31, 023142.	2.5	7
22	Dissipative homoclinic loops of two-dimensional maps and strange attractors with one direction of instability. Communications on Pure and Applied Mathematics, 2011, 64, n/a-n/a.	3.1	5
23	Homoclinic Loops, Heteroclinic Cycles, and Rank One Dynamics. SIAM Journal on Applied Dynamical Systems, 2015, 14, 107-131.	1.6	4
24	Effects of cell cycle noise on excitable gene circuits. Physical Biology, 2016, 13, 066007.	1.8	4
25	Observing Infinite-dimensional Dynamical Systems. SIAM Journal on Applied Dynamical Systems, 2010, 9, 1229-1243.	1.6	3
26	Large Deviations for Gaussian Diffusions with Delay. Journal of Statistical Physics, 2018, 170, 254-285.	1.2	3
27	Observing Lyapunov Exponents of Infinite-Dimensional Dynamical Systems. Journal of Statistical Physics, 2015, 161, 1098-1111.	1.2	1