William Ott

List of Publications by Year
in descending order

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	Delay-induced uncertainty for a paradigmatic glucose–insulin model. Chaos, 2021, 31, 023142.	2.5	7
2	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
3	Emergent spatiotemporal population dynamics with cell-length control of synthetic microbial consortia. PLoS Computational Biology, 2021, 17, e1009381.	3.2	20
4	Bayesian inference of distributed time delay in transcriptional and translational regulation. Bioinformatics, 2020, 36, 586-593.	4.1	27
5	Majority sensing in synthetic microbial consortia. Nature Communications, 2020, 11, 3659.	12.8	47
6	Heterogeneity Improves Speed and Accuracy in Social Networks. Physical Review Letters, 2020, 125, 218302.	7.8	22
7	Spatiotemporal Dynamics of Synthetic Microbial Consortia in Microfluidic Devices. ACS Synthetic Biology, 2019, 8, 2051-2058.	3.8	54
8	Large Deviations for Gaussian Diffusions with Delay. Journal of Statistical Physics, 2018, 170, 254-285.	1.2	3
9	Tuning the dynamic range of bacterial promoters regulated by ligand-inducible transcription factors. Nature Communications, 2018, 9, 64.	12.8	121
10	Predicting Transcriptional Output of Synthetic Multi-input Promoters. ACS Synthetic Biology, 2018, 7, 1834-1843.	3.8	16
11	Modeling mechanical interactions in growing populations of rod-shaped bacteria. Physical Biology, 2017, 14, 055001.	1.8	31
12	Effects of cell cycle noise on excitable gene circuits. Physical Biology, 2016, 13, 066007.	1.8	4
13	Observing Lyapunov Exponents of Infinite-Dimensional Dynamical Systems. Journal of Statistical Physics, 2015, 161, 1098-1111.	1.2	1
14	Timing and Variability of Galactose Metabolic Gene Activation Depend on the Rate of Environmental Change. PLoS Computational Biology, 2015, 11, e1004399.	3.2	10
15	Homoclinic Loops, Heteroclinic Cycles, and Rank One Dynamics. SIAM Journal on Applied Dynamical Systems, 2015, 14, 107-131.	1.6	4
16	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
17	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
18	Transcriptional Delay Stabilizes Bistable Gene Networks. Physical Review Letters, 2013, 111, 058104.	7.8	60

#	Article	IF	Citations
19	Memory loss for time-dependent piecewise expanding systems in higher dimension. Mathematical Research Letters, 2013, 20, 141-161.	0.5	15
20	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
21	Stochastic Delay Accelerates Signaling in Gene Networks. PLoS Computational Biology, 2011, 7, e1002264.	3.2	71
22	From Limit Cycles to Strange Attractors. Communications in Mathematical Physics, 2010, 296, 215-249.	2.2	22
23	Observing Infinite-dimensional Dynamical Systems. SIAM Journal on Applied Dynamical Systems, 2010, 9, 1229-1243.	1.6	3
24	Strange Attractors in Periodically-Kicked Degenerate Hopf Bifurcations. Communications in Mathematical Physics, 2008, 281, 775-791.	2.2	9
25	The effect of projections on fractal sets and measures in Banach spaces. Ergodic Theory and Dynamical Systems, 2006, 26, 869.	0.6	10
26	Prevalence. Bulletin of the American Mathematical Society, 2005, 42, 263-291.	1.5	67
27	Learning about Reality from Observation. SIAM Journal on Applied Dynamical Systems, 2003, 2, 297-322.	1.6	19