Chad M Topaz

List of Publications by Year
in descending order

34 papers	1,788 citations	394421 19 h-index	454955 30 g-index
44 all docs	44 docs citations	44 times ranked	1143 citing authors

#	Article	IF	Citations
1	New York City jails: COVID discharge policy, data transparency, and reform. PLoS ONE, 2022, 17, e0262255.	2.5	2
2	Race- and gender-based under-representation of creative contributors: art, fashion, film, and music. Humanities and Social Sciences Communications, 2022, 9, .	2.9	9
3	Impacts of California Proposition 47 on crime in Santa Monica, California. PLoS ONE, 2021, 16, e0251199.	2.5	2
4	Affirmative action, critical mass, and a predictive model of undergraduate student body demographics. PLoS ONE, 2021, 16, e0250266.	2.5	0
5	Capturing dynamics of time-varying data via topology. , 2021, .		10
6	Comparing demographics of signatories to public letters on diversity in the mathematical sciences. PLoS ONE, 2020, 15, e0232075.	2.5	2
7	Spatiotemporal chaos and quasipatterns in coupled reaction–diffusion systems. Physica D: Nonlinear Phenomena, 2020, 409, 132475.	2.8	10
8	JUSTFAIR: Judicial System Transparency through Federal Archive Inferred Records. PLoS ONE, 2020, 15, e0241381.	2.5	2
9	Model reconstruction from temporal data for coupled oscillator networks. Chaos, 2019, 29, 103116.	2.5	19
10	Diversity of artists in major U.S. museums. PLoS ONE, 2019, 14, e0212852.	2.5	32
11	A topological approach to selecting models of biological experiments. PLoS ONE, 2019, 14, e0213679.	2.5	24
12	Analyzing collective motion with machine learning and topology. Chaos, 2019, 29, 123125.	2.5	31
13	Gender Representation on Journal Editorial Boards in the Mathematical Sciences. PLoS ONE, 2016, 11, e0161357.	2.5	71
14	Biological Aggregation Driven by Social and Environmental Factors: A Nonlocal Model and Its Degenerate Cahn--Hilliard Approximation. SIAM Journal on Applied Dynamical Systems, 2016, 15, 1528-1562.	1.6	19
15	Topological Data Analysis of Biological Aggregation Models. PLoS ONE, 2015, 10, e0126383.	2.5	120
16	Flipped Calculus: A Study of Student Performance and Perceptions. Primus, 2015, 25, 847-860.	0.5	39
17	Nonlocal Aggregation Models: A Primer of Swarm Equilibria. SIAM Review, 2013, 55, 709-747.	9.5	51
18	Social Aggregation in Pea Aphids: Experiment and Random Walk Modeling. PLoS ONE, 2013, 8, e83343.	2.5	13

#	Article	IF	Citations
19	Instabilities and patterns in coupled reaction-diffusion layers. Physical Review E, 2012, 85, 026215.	2.1	26
20	Locust Dynamics: Behavioral Phase Change and Swarming. PLoS Computational Biology, 2012, 8, e1002642.	3.2	83
21	A Primer of Swarm Equilibria. SIAM Journal on Applied Dynamical Systems, 2011, 10, 212-250.	1.6	93
22	Forced patterns near a Turing-Hopf bifurcation. Physical Review E, 2010, 81, 026213.	2.1	14
23	Blogs and Wikis as Instructional Tools: A Social Software Adaptation of Just-in-Time Teaching. College Teaching, 2009, 57, 105-110.	0.6	38
24	Asymptotic Dynamics of Attractive-Repulsive Swarms. SIAM Journal on Applied Dynamical Systems, 2009, 8, 880-908.	1.6	60
25	A model for rolling swarms of locusts. European Physical Journal: Special Topics, 2008, 157, 93-109.	2.6	111
26	Continuum Modeling in the Physical Sciences by VAN GROESEN, E. and MOLENAAR, J.. Biometrics, 2008, 64, 1299-1300.	1.4	0
27	A Nonlocal Continuum Model for Biological Aggregation. Bulletin of Mathematical Biology, 2006, 68, 1601-1623.	1.9	340
28	Modeling the potential impact of rectal microbicides to reduce HIV transmission in bathhouses. Mathematical Biosciences and Engineering, 2006, 3, 459-466.	1.9	16
29	Pattern Control via Multifrequency Parametric Forcing. Physical Review Letters, 2004, 93, 034502.	7.8	30
30	Multifrequency control of Faraday wave patterns. Physical Review E, 2004, 70, 066206.	2.1	35
31	Swarming Patterns in a Two-Dimensional Kinematic Model for Biological Groups. SIAM Journal on Applied Mathematics, 2004, 65, 152-174.	1.8	384
32	Resonances and superlattice pattern stabilization in two-frequency forced Faraday waves. Physica D: Nonlinear Phenomena, 2002, 172, 1-29.	2.8	27
33	Two-frequency forced Faraday waves: weakly damped modes and pattern selection. Physica D: Nonlinear Phenomena, 2000, 143, 205-225.	2.8	68
34	Connecting the Dots: Discovering the â€œShapeâ€•of Data. Frontiers for Young Minds, 0, 9, .	0.8	1