Andrew L Krause

List of Publications by Year
in descending order

33	522	686830 13	713013 21
papers	citations	h-index	g-index

35	35	35	313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pullback attractors of non-autonomous stochastic degenerate parabolic equations on unbounded domains. Journal of Mathematical Analysis and Applications, 2014, 417, 1018-1038.	0.5	41
2	From one pattern into another: analysis of Turing patterns in heterogeneous domains via WKBJ. Journal of the Royal Society Interface, 2020, 17, 20190621.	1.5	37
3	Influence of Curvature, Growth, and Anisotropy on the Evolution of Turing Patterns on Growing Manifolds. Bulletin of Mathematical Biology, 2019, 81, 759-799.	0.9	36
4	Modern perspectives on near-equilibrium analysis of Turing systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200268.	1.6	34
5	Dynamics of the non-autonomous stochastic p-Laplace equation driven by multiplicative noise. Applied Mathematics and Computation, 2014, 246, 365-376.	1.4	32
6	Stochastic epidemic metapopulation models on networks: SIS dynamics and control strategies. Journal of Theoretical Biology, 2018, 449, 35-52.	0.8	32
7	Turing conditions for pattern forming systems on evolving manifolds. Journal of Mathematical Biology, 2021, 82, 4.	0.8	31
8	Bespoke Turing Systems. Bulletin of Mathematical Biology, 2021, 83, 41.	0.9	30
9	Turingâ€“Hopf patterns on growing domains: The torus and the sphere. Journal of Theoretical Biology, 2019, 481, 136-150.	0.8	29
10	Heterogeneity induces spatiotemporal oscillations in reaction-diffusion systems. Physical Review E, 2018, 97, 052206.	0.8	23
11	A Non-local Cross-Diffusion Model of Population Dynamics I: Emergent Spatial and Spatiotemporal Patterns. Bulletin of Mathematical Biology, 2020, 82, 112.	0.9	16
12	Emergent structures in reaction-advection-diffusion systems on a sphere. Physical Review E, 2018, 97, 042215.	0.8	15
13	Continuous dispersal in a model of predatorâ€“prey-subsidy population dynamics. Ecological Modelling, 2017, 354, 115-122.	1.2	14
14	Two-Species Migration and Clustering in Two-Dimensional Domains. Bulletin of Mathematical Biology, 2017, 79, 2302-2333.	0.9	13
15	Mix and Match: Phenotypic Coexistence as a Key Facilitator of Cancer Invasion. Bulletin of Mathematical Biology, 2020, 82, 15.	0.9	13
16	Isolating Patterns in Open Reactionâ€“Diffusion Systems. Bulletin of Mathematical Biology, 2021, 83, 82.	0.9	13
17	Diffusive instabilities and spatial patterning from the coupling of reactionâ€“diffusion processes with Stokes flow in complex domains. Journal of Fluid Mechanics, 2019, 877, 759-823.	1.4	12
18	Beyond Onsagerâ€“Casimir Relations: Shared Dependence of Phenomenological Coefficients on State Variables. Journal of Physical Chemistry Letters, 2018, 9, 7021-7025.	2.1	11

#	Article	IF	Citations
19	Hybrid approach to modeling spatial dynamics of systems with generalist predators. Journal of Theoretical Biology, 2019, 462, 26-47.	0.8	10
20	Introduction to â€˜Recent progress and open frontiers in Turingâ€™s theory of morphogenesisâ€™. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200280.	1.6	10
21	Generalist predator dynamics under kolmogorov versus non-Kolmogorov models. Journal of Theoretical Biology, 2020, 486, 110060.	0.8	8
22	Turing Patterning in Stratified Domains. Bulletin of Mathematical Biology, 2020, 82, 136.	0.9	8
23	A Non-local Cross-Diffusion Model of Population Dynamics II: Exact, Approximate, and Numerical Traveling Waves in Single- and Multi-species Populations. Bulletin of Mathematical Biology, 2020, 82, 113.	0.9	8
24	Predator-prey-subsidy population dynamics on stepping-stone domains with dispersal delays. Journal of Theoretical Biology, 2018, 451, 19-34.	0.8	7
25	Coupled complex Ginzburgâ€“Landau systems with saturable nonlinearity and asymmetric cross-phase modulation. Annals of Physics, 2018, 396, 397-428.	1.0	7
26	Effects of tidal torques on 1I/2017 U1 (â€˜Oumuamua). Icarus, 2018, 311, 170-174.	1.1	6
27	Chaotic Dynamics in the Planar Gravitational Many-Body Problem with Rigid Body Rotations. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830013.	0.7	6
28	Amplitude death criteria for coupled complex Ginzburgâ€“Landau systems. Nonlinear Dynamics, 2019, 97, 151-159.	2.7	5
29	Lattice and continuum modelling of a bioactive porous tissue scaffold. Mathematical Medicine and Biology, 2019, 36, 325-360.	0.8	3
30	Predicting Bone Formation in Mesenchymal Stromal Cell-Seeded Hydrogels Using Experiment-Based Mathematical Modeling. Tissue Engineering - Part A, 2020, 26, 1014-1023.	1.6	3
31	Unstaggered-staggered solitons on one- and two-dimensional two-component discrete nonlinear SchrÃ¶dinger lattices. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105244.	1.7	3
32	Bifurcations and Dynamics Emergent From Lattice and Continuum Models of Bioactive Porous Media. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830037.	0.7	1
33	Locating the Baking Isotherm in a SÃ¸derberg Electrode: Analysis of a Moving Thermistor Model. SIAM Journal on Applied Mathematics, 2021, 81, 1691-1716.	0.8	1