## Gideon Simpson

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3496951/publications.pdf

Version: 2024-02-01

687363 794594 39 427 13 19 citations h-index g-index papers 43 43 43 324 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Solitary Wave Benchmarks in Magma Dynamics. Journal of Scientific Computing, 2011, 49, 268-290.	2.3	58
2	Stability of Solitary Waves for a Generalized Derivative Nonlinear SchrĶdinger Equation. Journal of Nonlinear Science, 2013, 23, 557-583.	2.1	39
3	Asymptotic Stability of High-dimensional Zakharov–Kuznetsov Solitons. Archive for Rational Mechanics and Analysis, 2016, 220, 639-710.	2.4	31
4	Kullback-Leibler Approximation for Probability Measures on Infinite Dimensional Spaces. SIAM Journal on Mathematical Analysis, 2015, 47, 4091-4122.	1.9	30
5	Algorithms for KullbackLeibler Approximation of Probability Measures in Infinite Dimensions. SIAM Journal of Scientific Computing, 2015, 37, A2733-A2757.	2.8	30
6	Spectral analysis for matrix Hamiltonian operators. Nonlinearity, 2011, 24, 389-429.	1.4	23
7	A generalized parallel replica dynamics. Journal of Computational Physics, 2015, 284, 595-616.	3.8	23
8	Ill-posedness of degenerate dispersive equations. Nonlinearity, 2012, 25, 2655-2680.	1.4	17
9	Focusing singularity in a derivative nonlinear SchrĶdinger equation. Physica D: Nonlinear Phenomena, 2013, 262, 48-58.	2.8	17
10	Exploring thematic structure and predicted functionality of 16S rRNA amplicon data. PLoS ONE, 2019, 14, e0219235.	2.5	17
11	Asymptotic Stability of Ascending Solitary Magma Waves. SIAM Journal on Mathematical Analysis, 2008, 40, 1337-1391.	1.9	14
12	Polychromatic Solitary Waves in a Periodic and Nonlinear Maxwell System. SIAM Journal on Applied Dynamical Systems, 2012, 11, 478-506.	1.6	13
13	On a Hamiltonian PDE arising in magma dynamics. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 903-924.	0.9	13
14	Local Existence Theory for Derivative Nonlinear SchrĶdinger Equations with Noninteger Power Nonlinearities. SIAM Journal on Mathematical Analysis, 2015, 47, 2241-2264.	1.9	12
15	A System of ODEs for a Perturbation of a Minimal Mass Soliton. Journal of Nonlinear Science, 2010, 20, 425-461.	2.1	10
16	A Theoretical Examination of Diffusive Molecular Dynamics. SIAM Journal on Applied Mathematics, 2016, 76, 2175-2195.	1.8	10
17	Petviashvilli's Method for the Dirichlet Problem. Journal of Scientific Computing, 2016, 66, 296-320.	2.3	9
18	Numerical analysis of parallel replica dynamics. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 1287-1314.	1.9	8

#	Article	IF	Citations
19	Behavior of a Model Dynamical System with Applications to Weak Turbulence. Experimental Mathematics, 2013, 22, 250-264.	0.7	7
20	Local Structure of Singular Profiles for a Derivative Nonlinear SchrĶdinger Equation. SIAM Journal on Applied Dynamical Systems, 2017, 16, 514-545.	1.6	6
21	Transient probability currents provide upper and lower bounds on non-equilibrium steady-state currents in the Smoluchowski picture. Journal of Chemical Physics, 2019, 151, 174108.	3.0	6
22	Anharmonic free energy of lattice vibrations in fcc crystals from a mean-field bond. Physical Review B, 2020, 102, .	3.2	6
23	Coherent Structures and Carrier Shocks in the Nonlinear Periodic Maxwell Equations. Multiscale Modeling and Simulation, 2011, 9, 955-990.	1.6	5
24	Analysis of estimators for Adaptive Kinetic Monte Carlo. Communications in Applied Mathematics and Computational Science, 2016, 11, 171-186.	1.8	5
25	Spin-diffusions and diffusive molecular dynamics. Modelling and Simulation in Materials Science and Engineering, 2017, 25, 084003.	2.0	3
26	Analytical and numerical results on the positivity of steady state solutions of a thin film equation. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 1305-1321.	0.9	2
27	Existence theory for magma equations in dimension two and higher. Nonlinearity, 2018, 31, 4724-4745.	1.4	1
28	Sampling from rough energy landscapes. Communications in Mathematical Sciences, 2020, 18, 2271-2303.	1.0	1
29	A numerical method for a nonlocal diffusion equation with additive noise. Stochastics and Partial Differential Equations: Analysis and Computations, 2023, 11, 1433-1469.	0.9	1
30	Conservative integrators for a toy model of weak turbulence. Journal of Computational and Applied Mathematics, 2017, 325, 113-124.	2.0	0
31	Detection of thin high contrast dielectrics from boundary measurements. Journal of Physics Communications, 2019, 3, 115016.	1.2	0
32	Unbiased Trajectory-Based Estimation of Stationary Distributions and Splitting Probabilities. Biophysical Journal, 2021, 120, 177a.	0.5	0
33	Relative entropy minimization over Hilbert spaces via Robbins-Monro. AIMS Mathematics, 2019, 4, 359-383.	1.6	0
34	Well-posedness of a random coefficient damage mechanics model*. Applicable Analysis, 0, , 1-28.	1.3	0
35	Exploring thematic structure and predicted functionality of 16S rRNA amplicon data. , 2019, 14, e0219235.		0
36	Exploring thematic structure and predicted functionality of 16S rRNA amplicon data. , 2019, 14, e0219235.		0

#	Article	IF	CITATIONS
37	Exploring thematic structure and predicted functionality of 16S rRNA amplicon data. , 2019, 14, e0219235.		O
38	Exploring thematic structure and predicted functionality of 16S rRNA amplicon data. , 2019, 14, e0219235.		0
39	Iterate averaging, the Kalman filter, and 3DVAR for linear inverse problems. Numerical Algorithms, 0, , .	1.9	0