

Marcio Gameiro

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

845
citations

567281

15
h-index

552781

26
g-index

29
all docs

29
docs citations

29
times ranked

741
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative three-dimensional microstructure of a solid oxide fuel cell cathode. <i>Electrochemistry Communications</i> , 2009, 11, 1052-1056.	4.7	141
2	A topological measurement of protein compressibility. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2015, 32, 1-17.	0.9	129
3	Three-Dimensional Analysis of Solid Oxide Fuel Cell Ni-YSZ Anode Interconnectivity. <i>Microscopy and Microanalysis</i> , 2009, 15, 71-77.	0.4	85
4	Evolution of pattern complexity in the Cahn–Hilliard theory of phase separation. <i>Acta Materialia</i> , 2005, 53, 693-704.	7.9	75
5	Analytic estimates and rigorous continuation for equilibria of higher-dimensional PDEs. <i>Journal of Differential Equations</i> , 2010, 249, 2237-2268.	2.2	53
6	Combinatorial-topological framework for the analysis of global dynamics. <i>Chaos</i> , 2012, 22, 047508.	2.5	40
7	Topological characterization of spatial-temporal chaos. <i>Physical Review E</i> , 2004, 70, 035203.	2.1	32
8	Interaction network analysis in shear thickening suspensions. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	32
9	Rigorous computation of smooth branches of equilibria for the three dimensional Cahn–Hilliard equation. <i>Numerische Mathematik</i> , 2011, 117, 753-778.	1.9	29
10	Homology and symmetry breaking in Rayleigh–Bénard convection: Experiments and simulations. <i>Physics of Fluids</i> , 2007, 19, 117105.	4.0	27
11	Validated continuation over large parameter ranges for equilibria of PDEs. <i>Mathematics and Computers in Simulation</i> , 2008, 79, 1368-1382.	4.4	26
12	A Posteriori Verification of Invariant Objects of Evolution Equations: Periodic Orbits in the Kuramoto–Sivashinsky PDE. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 687-728.	1.6	23
13	Efficient Rigorous Numerics for Higher-Dimensional PDEs via One-Dimensional Estimates. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 2063-2087.	2.3	21
14	A Framework for the Numerical Computation and A Posteriori Verification of Invariant Objects of Evolution Equations. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 1070-1088.	1.6	20
15	Rigorous Numerics for ill-posed PDEs: Periodic Orbits in the Boussinesq Equation. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 228, 129-157.	2.4	20
16	Continuation of point clouds via persistence diagrams. <i>Physica D: Nonlinear Phenomena</i> , 2016, 334, 118-132.	2.8	15
17	Computation of Smooth Manifolds Via Rigorous Multi-parameter Continuation in Infinite Dimensions. <i>Foundations of Computational Mathematics</i> , 2016, 16, 531-575.	2.5	15
18	Topological Horseshoes of Traveling Waves for a Fast–Slow Predator–Prey System. <i>Journal of Dynamics and Differential Equations</i> , 2007, 19, 623-654.	1.9	12

#	ARTICLE	IF	CITATIONS
19	A study of rigorous ODE integrators for multi-scale set-oriented computations. Applied Numerical Mathematics, 2016, 107, 34-47.	2.1	12
20	Mapping parameter spaces of biological switches. PLoS Computational Biology, 2021, 17, e1008711.	3.2	10
21	Rigorous numerics for piecewise-smooth systems: A functional analytic approach based on Chebyshev series. Journal of Computational and Applied Mathematics, 2016, 292, 654-673.	2.0	8
22	Rational design of complex phenotype via network models. PLoS Computational Biology, 2021, 17, e1009189.	3.2	8
23	On Exponential Decay and the Markus-Yamabe Conjecture in Infinite Dimensions with Applications to the Cima System. Journal of Dynamics and Differential Equations, 2018, 30, 1199-1219.	1.9	2
24	Parameter estimation in systems exhibiting spatially complex solutions via persistent homology and machine learning. Mathematics and Computers in Simulation, 2021, 185, 719-732.	4.4	2
25	A combinatorial marching hypercubes algorithm. Computers and Graphics, 2021, 102, 67-67.	2.5	2
26	Existence of secondary bifurcations or isolas for PDEs. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 4131-4137.	1.1	1
27	Rigorous enclosures of solutions of Neumann boundary value problems. Applied Numerical Mathematics, 2022, 180, 104-119.	2.1	0