

Zhiping Mao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4389692/publications.pdf>

Version: 2024-02-01

15
papers

730
citations

933447

10
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

396
citing authors

#	ARTICLE	IF	CITATIONS
1	What is the fractional Laplacian? A comparative review with new results. <i>Journal of Computational Physics</i> , 2020, 404, 109009.	3.8	208
2	Analysis and Approximation of a Fractional Cahn–Hilliard Equation. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 1689-1718.	2.3	115
3	Efficient and accurate spectral method using generalized Jacobi functions for solving Riesz fractional differential equations. <i>Applied Numerical Mathematics</i> , 2016, 106, 165-181.	2.1	82
4	Efficient spectral Galerkin methods for fractional partial differential equations with variable coefficients. <i>Journal of Computational Physics</i> , 2016, 307, 243-261.	3.8	79
5	A Spectral Method (of Exponential Convergence) for Singular Solutions of the Diffusion Equation with General Two-Sided Fractional Derivative. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 24-49.	2.3	69
6	A Generalized Spectral Collocation Method with Tunable Accuracy for Fractional Differential Equations with End-Point Singularities. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A360-A383.	2.8	56
7	Well-posedness of the Cahn–Hilliard equation with fractional free energy and its Fourier Galerkin approximation. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 264-273.	5.1	32
8	Spectral element method with geometric mesh for two-sided fractional differential equations. <i>Advances in Computational Mathematics</i> , 2018, 44, 745-771.	1.6	29
9	Multi-domain spectral collocation method for variable-order nonlinear fractional differential equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 348, 377-395.	6.6	21
10	Nonlocal Flocking Dynamics: Learning the Fractional Order of PDEs from Particle Simulations. <i>Communications on Applied Mathematics and Computation</i> , 2019, 1, 597-619.	1.7	15
11	A fast solver for spectral elements applied to fractional differential equations using hierarchical matrix approximation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 366, 113053.	6.6	9
12	Fractional phase-field crystal modelling: analysis, approximation and pattern formation. <i>IMA Journal of Applied Mathematics</i> , 2020, 85, 231-262.	1.6	7
13	A Spectral Penalty Method for Two-Sided Fractional Differential Equations with General Boundary Conditions. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, A1840-A1866.	2.8	5
14	A spectral method for stochastic fractional PDEs using dynamically-orthogonal/bi-orthogonal decomposition. <i>Journal of Computational Physics</i> , 2022, 461, 111213.	3.8	2
15	Analysis and Approximation of Gradient Flows Associated with a Fractional Order Gross–Pitaevskii Free Energy. <i>Communications on Applied Mathematics and Computation</i> , 2019, 1, 5-19.	1.7	1