Zhiping Mao

List of Publications by Year
in descending order

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15	730	933447 10	996975 15
papers	citations	h-index	g-index

15	15	15	396
all docs	docs citations	times ranked	citing authors

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