Hengfei Ding

List of Publications by Year
in descending order

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40	854	586496 16	536525 29
papers	citations	h-index	g-index

42	42	42	511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The construction of higher-order numerical approximation formula for Riesz derivative and its application to nonlinear fractional differential equations (I). Communications in Nonlinear Science and Numerical Simulation, 2022, 110, 106394.	1.7	9
2	An efficient high-order numerical algorithm for the time fractional Fokkerâ€“Planck equations. International Journal of Computer Mathematics, 2021, 98, 357-366.	1.0	0
3	The development of higher-order numerical differential formulas of Caputo derivative and their applications (I). Computers and Mathematics With Applications, 2021, 84, 203-223.	1.4	6
4	Numerical Algorithm for the Time-Caputo and Space-Riesz Fractional Diffusion Equation. Communications on Applied Mathematics and Computation, 2020, 2, 57-72.	0.7	2
5	Numerical algorithms for the timeâ€Caputo and spaceâ€Riesz fractional Blochâ€Torrey equations. Numerical Methods for Partial Differential Equations, 2020, 36, 772-799.	2.0	8
6	A high-order numerical algorithm for two-dimensional timeâ€“space tempered fractional diffusion-wave equation. Applied Numerical Mathematics, 2019, 135, 30-46.	1.2	26
7	A High-Order Algorithm for Time-Caputo-Tempered Partial Differential Equation with Riesz Derivatives in Two Spatial Dimensions. Journal of Scientific Computing, 2019, 80, 81-109.	1.1	22
8	High-order algorithms for riesz derivative and their applications (IV). Fractional Calculus and Applied Analysis, 2019, 22, 1537-1560.	1.2	6
9	High-order numerical approximation formulas for Riemann-Liouville (Riesz) tempered fractional derivatives: construction and application (I). Applied Mathematics and Computation, 2018, 329, 432-443.	1.4	7
10	High-order numerical approximation formulas for Riemannâ€“Liouville (Riesz) tempered fractional derivatives: Construction and application (II). Applied Mathematics Letters, 2018, 86, 208-214.	1.5	10
11	High-order algorithm for the two-dimension Riesz space-fractional diffusion equation. International Journal of Computer Mathematics, 2017, 94, 2063-2073.	1.0	12
12	Highâ€order algorithms for Riesz derivative and their applications (V). Numerical Methods for Partial Differential Equations, 2017, 33, 1754-1794.	2.0	24
13	Fractional-compact numerical algorithms for Riesz spatial fractional reaction-dispersion equations. Fractional Calculus and Applied Analysis, 2017, 20, 722-764.	1.2	20
14	High-Order Numerical Algorithms for Riesz Derivatives via Constructing New Generating Functions. Journal of Scientific Computing, 2017, 71, 759-784.	1.1	74
15	A new second-order midpoint approximation formula for Riemannâ€“Liouville derivative: algorithm and its application. IMA Journal of Applied Mathematics, 2017, 82, 909-944.	0.8	9
16	Highâ€order compact difference schemes for the modified anomalous subdiffusion equation. Numerical Methods for Partial Differential Equations, 2016, 32, 213-242.	2.0	26
17	General PadÃ© approximation method for timeâ€“space fractional diffusion equation. Journal of Computational and Applied Mathematics, 2016, 299, 221-228.	1.1	9
18	High-Order Algorithms for Riesz Derivative and their Applications (III). Fractional Calculus and Applied Analysis, 2016, 19, 19-55.	1.2	58

#	Article	IF	Citations
19	High-order algorithms for Riesz derivative and their applications (II). Journal of Computational Physics, 2015, 293, 218-237.	1.9	104
20	High-Order Algorithms for Riesz Derivative and Their Applications<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mo stretchy="false">(</mml:mo><mml:mi>I</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math>. Abstract and Applied Analysis, 2014, 2014, 1-17.	0.3	29
21	Determination of Coefficients of High-Order Schemes for Riemann-Liouville Derivative. Scientific World Journal, The, 2014, 2014, 1-21.	0.8	5
22	Fourth-Order Compact Difference Schemes for the Riemann-Liouville and Riesz Derivatives. Abstract and Applied Analysis, 2014, 2014, 1-4.	0.3	0
23	Improved matrix transform method for the Riesz space fractional reaction dispersion equation. Journal of Computational and Applied Mathematics, 2014, 260, 266-280.	1.1	14
24	Higher order finite difference method for the reaction and anomalous-diffusion equation. Applied Mathematical Modelling, 2014, 38, 3802-3821.	2.2	89
25	Mixed spline function method for reactionâ€“subdiffusion equations. Journal of Computational Physics, 2013, 242, 103-123.	1.9	32
26	Numerical Algorithms for the Fractional Diffusion-Wave Equation with Reaction Term. Abstract and Applied Analysis, 2013, 2013, 1-15.	0.3	13
27	Finite Difference Method for Solving the Time Fractional Diffusion Equation. Communications in Computer and Information Science, 2012, , 115-123.	0.4	1
28	New numerical methods for the Riesz space fractional partial differential equations. Computers and Mathematics With Applications, 2012, 63, 1135-1146.	1.4	47
29	A class of difference scheme for solving telegraph equation by new non-polynomial spline methods. Applied Mathematics and Computation, 2012, 218, 4671-4683.	1.4	27
30	Notes on Implicit finite difference approximation for time fractional diffusion equations [Comput. Math. Appl. 56 (2008) 1138â€“1145]. Computers and Mathematics With Applications, 2011, 61, 2924-2928.	1.4	12
31	A New Numerical Method for the Riesz Space Fractional Diffusion Equation. Advanced Materials Research, 2011, 213, 393-396.	0.3	2
32	A Class of New Generalized AOR Method for Augmented Systems. Lecture Notes in Computer Science, 2011, , 158-165.	1.0	2
33	A New Family of Methods for Nonlinear Equations. Lecture Notes in Computer Science, 2010, , 387-394.	1.0	0
34	A new unconditionally stable compact difference scheme of O for the 1D linear hyperbolic equation. Applied Mathematics and Computation, 2009, 207, 236-241.	1.4	17
35	A note on some quadrature based three-step iterative methods for non-linear equations. Applied Mathematics and Computation, 2009, 215, 53-57.	1.4	7
36	A new difference scheme with high accuracy and absolute stability for solving convectionâ€“diffusion equations. Journal of Computational and Applied Mathematics, 2009, 230, 600-606.	1.1	46

#	Article	IF	Citations
37	A new fourth-order compact finite difference scheme for the two-dimensional second-order hyperbolic equation. Journal of Computational and Applied Mathematics, 2009, 230, 626-632.	1.1	52
38	New family of eighthâ€order methods for nonlinear equation. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 1418-1427.	0.5	1
39	Parameters spline methods for the solution of hyperbolic equations. Applied Mathematics and Computation, 2008, 204, 938-941.	1.4	24
40	A Note on Numerical Algorithm for the Time-Caputo and Space-Riesz Fractional Diffusion Equation. Communications on Applied Mathematics and Computation, 0, , 1.	0.7	0