

Ahmed Hendy

List of Publications by Year in descending order

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papers

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430874

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docs citations

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times ranked

348
citing authors

#	ARTICLE	IF	CITATIONS
1	High-order finite difference/spectral-Galerkin approximations for the nonlinear time-space fractional Ginzburg-Landau equation. Numerical Methods for Partial Differential Equations, 2023, 39, 4549-4574.	3.6	12
2	Tanh Jacobi spectral collocation method for the numerical simulation of nonlinear Schrödinger equations on unbounded domain. Mathematical Methods in the Applied Sciences, 2023, 46, 656-674.	2.3	7
3	Graded mesh discretization for coupled system of nonlinear multi-term time-space fractional diffusion equations. Engineering With Computers, 2022, 38, 1351-1363.	6.1	28
4	On the dissipativity of some Caputo time-fractional subdiffusion models in multiple dimensions: Theoretical and numerical investigations. Journal of Computational and Applied Mathematics, 2022, 400, 113748.	2.0	2
5	Discrete fractional stochastic Grönwall inequalities arising in the numerical analysis of multi-term fractional order stochastic differential equations. Mathematics and Computers in Simulation, 2022, 193, 269-279.	4.4	7
6	A solely time-dependent source reconstruction in a multiterm time-fractional order diffusion equation with non-smooth solutions. Numerical Algorithms, 2022, 90, 809-832.	1.9	6
7	Outcome of abdominal massage before gavage feeding on tolerated feeding for low birth weight infants. Nursing Open, 2022, 9, 1060-1065.	2.4	5
8	A priori estimates to solutions of the time-fractional convection-diffusion-reaction equation coupled with the Darcy system. Communications in Nonlinear Science and Numerical Simulation, 2022, 109, 106288.	3.3	8
9	A note on a class of Caputo fractional differential equations with respect to another function. Mathematics and Computers in Simulation, 2022, 196, 289-295.	4.4	9
10	On a Reconstruction of a Solely Time-Dependent Source in a Time-Fractional Diffusion Equation with Non-smooth Solutions. Journal of Scientific Computing, 2022, 90, 1.	2.3	11
11	An energy-preserving computational approach for the semilinear space fractional damped Klein-Gordon equation with a generalized scalar potential. Applied Mathematical Modelling, 2022, 108, 512-530.	4.2	7
12	An easy to implement linearized numerical scheme for fractional reaction-diffusion equations with a prehistorical nonlinear source function. Mathematics and Computers in Simulation, 2022, 200, 218-239.	4.4	5
13	Logarithmic Jacobi collocation method for Caputo-Hadamard fractional differential equations. Applied Numerical Mathematics, 2022, 181, 326-346.	2.1	13
14	Numerical treatment for after-effected multi-term time-space fractional advection-diffusion equations. Engineering With Computers, 2021, 37, 2763-2773.	6.1	9
15	An efficient dissipation-preserving Legendre-Galerkin spectral method for the Higgs boson equation in the de Sitter spacetime universe. Applied Numerical Mathematics, 2021, 160, 281-295.	2.1	23
16	Convergence analysis of an L^1 -continuous Galerkin method for nonlinear time-space fractional Schrödinger equations. International Journal of Computer Mathematics, 2021, 98, 1420-1437.	1.8	24
17	A bounded numerical solver for a fractional FitzHugh-Nagumo equation and its high-performance implementation. Engineering With Computers, 2021, 37, 1593-1609.	6.1	3
18	A Pseudo-Spectral Scheme for Systems of Two-Point Boundary Value Problems with Left and Right Sided Fractional Derivatives and Related Integral Equations. CMES - Computer Modeling in Engineering and Sciences, 2021, 128, 21-41.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Combined Galerkin spectral/finite difference method over graded meshes for the generalized nonlinear fractional Schrödinger equation. <i>Nonlinear Dynamics</i> , 2021, 103, 2493-2507.	5.2	22
20	Computational aspects of fractional Romanovskiâ€“Bessel functions. <i>Computational and Applied Mathematics</i> , 2021, 40, 1.	2.2	5
21	The impact of memory effect on space fractional strong quantum couplers with tunable decay behavior and its numerical simulation. <i>Scientific Reports</i> , 2021, 11, 10275.	3.3	16
22	Numerical analysis of multi-term time-fractional nonlinear subdiffusion equations with time delay: What could possibly go wrong?. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 96, 105672.	3.3	22
23	On a nonlinear energy-conserving scalar auxiliary variable (SAV) model for Riesz space-fractional hyperbolic equations. <i>Applied Numerical Mathematics</i> , 2021, 165, 339-347.	2.1	1
24	Crank-Nicolson/finite element approximation for the Schrödinger equation in the de Sitter spacetime. <i>Physica Scripta</i> , 2021, 96, 124010.	2.5	2
25	A general framework for the numerical analysis of high-order finite difference solvers for nonlinear multi-term time-space fractional partial differential equations with time delay. <i>Applied Numerical Mathematics</i> , 2021, 169, 108-121.	2.1	21
26	Long time behavior of Robin boundary sub-diffusion equation with fractional partial derivatives of Caputo type in differential and difference settings. <i>Mathematics and Computers in Simulation</i> , 2021, 190, 1370-1378.	4.4	8
27	A novel spectral Galerkin/Petrovâ€“Galerkin algorithm for the multi-dimensional spaceâ€“time fractional advectionâ€“diffusionâ€“reaction equations with nonsmooth solutions. <i>Mathematics and Computers in Simulation</i> , 2021, 190, 678-690.	4.4	27
28	Alikhanov Legendreâ€“Galerkin Spectral Method for the Coupled Nonlinear Time-Space Fractional Ginzburgâ€“Landau Complex System. <i>Mathematics</i> , 2021, 9, 183.	2.2	18
29	On a discrete fractional stochastic Grönwall inequality and its application in the numerical analysis of stochastic FDEs involving a martingale. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2021, .	1.0	4
30	Numerical Simulation for a Multidimensional Fourth-Order Nonlinear Fractional Subdiffusion Model with Time Delay. <i>Mathematics</i> , 2021, 9, 3050.	2.2	6
31	Interpolating Stabilized Element Free Galerkin Method for Neutral Delay Fractional Damped Diffusion-Wave Equation. <i>Journal of Function Spaces</i> , 2021, 2021, 1-11.	0.9	4
32	An Efficient Hybrid Numerical Scheme for Nonlinear Multiterm Caputo Time and Riesz Space Fractional-Order Diffusion Equations with Delay. <i>Journal of Function Spaces</i> , 2021, 2021, 1-13.	0.9	6
33	Convergence and stability estimates in difference setting for timeâ€“fractional parabolic equations with functional delay. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 118-132.	3.6	19
34	Corrigendum to â€œA numerically efficient and conservative model for a Riesz space-fractional Kleinâ€“Gordonâ€“Zakharov systemâ€œ. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 83, 105109.	3.3	4
35	Semi-implicit Galerkinâ€“Legendre Spectral Schemes for Nonlinear Time-Space Fractional Diffusionâ€“Reaction Equations with Smooth and Nonsmooth Solutions. <i>Journal of Scientific Computing</i> , 2020, 82, 1.	2.3	71
36	A Discrete Grönwall Inequality and Energy Estimates in the Analysis of a Discrete Model for a Nonlinear Time-Fractional Heat Equation. <i>Mathematics</i> , 2020, 8, 1539.	2.2	10

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37	Theoretical Analysis (Convergence and Stability) of a Difference Approximation for Multiterm Time Fractional Convection Diffusion-Wave Equations with Delay. <i>Mathematics</i> , 2020, 8, 1696.	2.2	1
38	On the stability and convergence of an implicit logarithmic scheme for diffusion equations with nonlinear reaction. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 735-749.	1.5	1
39	Global consistency analysis of L1-Galerkin spectral schemes for coupled nonlinear space-time fractional Schrödinger equations. <i>Applied Numerical Mathematics</i> , 2020, 156, 276-302.	2.1	49
40	Numerical method for two-dimensional space fractional equations with functional delay. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
41	Discrete monotone method for space-fractional nonlinear reaction-diffusion equations. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	1
42	Theoretical analysis of an explicit energy-conserving scheme for a fractional Klein-Gordon-Zakharov system. <i>Applied Numerical Mathematics</i> , 2019, 146, 245-259.	2.1	14
43	Numerical simulation of Turing patterns in a fractional hyperbolic reaction-diffusion model with Grünwald differences. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	4
44	Algorithm for some anomalously diffusive hyperbolic systems in molecular dynamics: Theoretical analysis and pattern formation. <i>Journal of Computational Physics</i> , 2019, 397, 108863.	3.8	1
45	A novel discrete Gronwall inequality in the analysis of difference schemes for time-fractional multi-delayed diffusion equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 73, 110-119.	3.3	29
46	A numerically efficient and conservative model for a Riesz space-fractional Klein-Gordon-Zakharov system. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 71, 22-37.	3.3	33
47	Discrete Dynamics of Nonlinear Systems in Nature and Society. <i>Discrete Dynamics in Nature and Society</i> , 2019, 2019, 1-2.	0.9	0
48	An efficient Hamiltonian numerical model for a fractional Klein-Gordon equation through weighted-shifted Grünwald differences. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 1394-1412.	1.5	6
49	On the solution of hyperbolic two-dimensional fractional systems via discrete variational schemes of high order of accuracy. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 612-622.	2.0	13
50	A Conservative Scheme with Optimal Error Estimates for a Multidimensional Space-Fractional Gross-Pitaevskii Equation. <i>International Journal of Applied Mathematics and Computer Science</i> , 2019, 29, 713-723.	1.5	5
51	A compact fourth-order in space energy-preserving method for Riesz space-fractional nonlinear wave equations. <i>Applied Mathematics and Computation</i> , 2018, 325, 1-14.	2.2	36
52	A semi-linear delayed diffusion-wave system with distributed order in time. <i>Numerical Algorithms</i> , 2018, 77, 885-903.	1.9	16
53	A pseudo energy-invariant method for relativistic wave equations with Riesz space-fractional derivatives. <i>Computer Physics Communications</i> , 2018, 224, 98-107.	7.5	46
54	Numerical discretization for fractional differential equations with feedback control. <i>IFAC-PapersOnLine</i> , 2018, 51, 743-747.	0.9	0

#	ARTICLE	IF	CITATIONS
55	A bounded and monotone finite-difference solution of a hyperbolic Burgers's-Fisher equation. International Journal of Modern Physics C, 2018, 29, 1850122.	1.7	1
56	On a class of non-linear delay distributed order fractional diffusion equations. Journal of Computational and Applied Mathematics, 2017, 318, 433-443.	2.0	52
57	Numerical Methods for a Class of Fractional Advection-Diffusion Models with Functional Delay. Lecture Notes in Computer Science, 2017, , 533-541.	1.3	3
58	Numerically pricing double barrier options in a time-fractional Black-Scholes model. Computers and Mathematics With Applications, 2017, 74, 1166-1175.	2.7	72
59	BDF-type shifted Chebyshev approximation scheme for fractional functional differential equations with delay and its error analysis. Applied Numerical Mathematics, 2017, 118, 266-276.	2.1	6
60	A numerical solution for a class of time fractional diffusion equations with delay. International Journal of Applied Mathematics and Computer Science, 2017, 27, 477-488.	1.5	18
61	A FRACTIONAL ANALOG OF CRANK-NICHOLSON METHOD FOR THE TWO SIDED SPACE FRACTIONAL PARTIAL EQUATION WITH FUNCTIONAL DELAY. Ural Mathematical Journal, 2016, 2, 48-57.	0.3	7
62	An implicit numerical method for the solution of the fractional advection-diffusion equation with delay. Trudy Instituta Matematiki I Mekhaniki UrO RAN, 2016, 22, 218-226.	0.1	1
63	Numerical Studies for Fractional Functional Differential Equations with Delay Based on BDF-Type Shifted Chebyshev Approximations. Abstract and Applied Analysis, 2015, 2015, 1-12.	0.7	16
64	A computational matrix method for solving systems of high order fractional differential equations. Applied Mathematical Modelling, 2013, 37, 4035-4050.	4.2	58
65	A numerical technique for solving fractional variational problems. Mathematical Methods in the Applied Sciences, 2013, 36, 1281-1289.	2.3	32
66	Convergence analysis of a Legendre spectral collocation method for nonlinear Fredholm integral equations in multidimensions. Mathematical Methods in the Applied Sciences, 0, , .	2.3	5
67	On the Cole-Hopf transformation and integration by parts formulae in computational methods within fractional differential equations and fractional optimal control theory. JVC/Journal of Vibration and Control, 0, , 107754632110310.	2.6	0