Akbar Mohebbi

List of Publications by Year
in descending order

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44 papers	2,019 citations	218592 26 h-index	243529 44 g-index
44 all docs	44 docs citations	44 times ranked	999 citing authors

#	Article	IF	Citations
1	Finite difference/spectral element method for one and two-dimensional Riesz space fractional advectionâ€“dispersion equations. Mathematics and Computers in Simulation, 2022, 193, 348-370.	2.4	6
2	A novel ADI Galerkin spectral element method for the solution of two-dimensional time fractional subdiffusion equation. International Journal of Computer Mathematics, 2021, 98, 845-867.	1.0	3
3	The Galerkin spectral element method for the solution of twoâ€dimensional multiterm time fractional diffusionâ€wave equation. Mathematical Methods in the Applied Sciences, 2021, 44, 2842-2858.	1.2	4
4	An efficient numerical method for the solution of 2D variable order time fractional mobileâ€“immobile advectionâ€“dispersion model. Mathematical Methods in the Applied Sciences, 2021, 44, 5908-5929.	1.2	3
5	Numerical solution of two and three dimensional time fractional damped nonlinear Kleinâ€“Gordon equation using ADI spectral element method. Applied Mathematics and Computation, 2021, 405, 126182.	1.4	3
6	Finite difference and spectral collocation methods for the solution of semilinear time fractional convection-reaction-diffusion equations with time delay. Journal of Applied Mathematics and Computing, 2019, 61, 635-656.	1.2	10
7	Crankâ€“Nicolson and Legendre spectral collocation methods for a partial integro-differential equation with a singular kernel. Journal of Computational and Applied Mathematics, 2019, 349, 197-206.	1.1	8
8	Fast and high-order numerical algorithms for the solution of multidimensional nonlinear fractional Ginzburg-Landau equation. European Physical Journal Plus, 2018, 133, 1.	1.2	15
9	Analysis of a Numerical Method for the Solution of Time Fractional Burgers Equation. Bulletin of the Iranian Mathematical Society, 2018, 44, 457-480.	0.4	14
10	Solitary wave solution of nonlinear Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers equation using a high-order difference scheme. Computational and Applied Mathematics, 2017, 36, 915-927.	1.3	12
11	Compact finite difference scheme for the solution of a time fractional partial integroâ€differential equation with a weakly singular kernel. Mathematical Methods in the Applied Sciences, 2017, 40, 7627-7639.	1.2	18
12	Analysis of a meshless method for the time fractional diffusion-wave equation. Numerical Algorithms, 2016, 73, 445-476.	1.1	72
13	Analysis of two methods based on Galerkin weak form for fractional diffusion-wave: Meshless interpolating element free Galerkin (IEFG) and finite element methods. Engineering Analysis With Boundary Elements, 2016, 64, 205-221.	2.0	38
14	Legendre spectral element method for solving time fractional modified anomalous sub-diffusion equation. Applied Mathematical Modelling, 2016, 40, 3635-3654.	2.2	68
15	The use of element free Galerkin method based on moving Kriging and radial point interpolation techniques for solving some types of Turing models. Engineering Analysis With Boundary Elements, 2016, 62, 93-111.	2.0	33
16	A numerical algorithm for determination of a control parameter in two-dimensional parabolic inverse problems. Acta Mathematicae Applicatae Sinica, 2015, 31, 213-224.	0.4	6
17	A meshless technique based on the local radial basis functions collocation method for solving parabolicâ€“parabolic Patlakâ€“Kellerâ€“Segel chemotaxis model. Engineering Analysis With Boundary Elements, 2015, 56, 129-144.	2.0	40
18	The use of interpolating element-free Galerkin technique for solving 2D generalized Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers and regularized long-wave equations on non-rectangular domains with error estimate. Journal of Computational and Applied Mathematics, 2015, 286, 211-231.	1.1	93

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19	The numerical solution of the twoâ€“dimensional sinh-Gordon equation via three meshless methods. Engineering Analysis With Boundary Elements, 2015, 51, 220-235.	2.0	25
20	Error estimate for the numerical solution of fractional reactionâ€“subdiffusion process based on a meshless method. Journal of Computational and Applied Mathematics, 2015, 280, 14-36.	1.1	84
21	An implicit RBF meshless approach for solving the time fractional nonlinear sine-Gordon and Kleinâ€“Gordon equations. Engineering Analysis With Boundary Elements, 2015, 50, 412-434.	2.0	112
22	A fourth-order compact difference scheme for the parabolic inverse problem with an overspecification at a point. Inverse Problems in Science and Engineering, 2015, 23, 457-478.	1.2	14
23	Highâ€order difference scheme for the solution of linear time fractional kleinâ€“gordon equations. Numerical Methods for Partial Differential Equations, 2014, 30, 1234-1253.	2.0	41
24	Solution of two-dimensional modified anomalous fractional sub-diffusion equation via radial basis functions (RBF) meshless method. Engineering Analysis With Boundary Elements, 2014, 38, 72-82.	2.0	47
25	The numerical solution of nonlinear high dimensional generalized Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers equation via the meshless method of radial basis functions. Computers and Mathematics With Applications, 2014, 68, 212-237.	1.4	133
26	Compact finite difference scheme for the solution of time fractional advection-dispersion equation. Numerical Algorithms, 2013, 63, 431-452.	1.1	47
27	A fourth-order compact solution of the two-dimensional modified anomalous fractional sub-diffusion equation with a nonlinear source term. Computers and Mathematics With Applications, 2013, 66, 1345-1359.	1.4	50
28	The use of a meshless technique based on collocation and radial basis functions for solving the time fractional nonlinear SchrÃ¶dinger equation arising in quantum mechanics. Engineering Analysis With Boundary Elements, 2013, 37, 475-485.	2.0	145
29	Compact finite difference scheme and RBF meshless approach for solving 2D Rayleighâ€“Stokes problem for a heated generalized second grade fluid with fractional derivatives. Computer Methods in Applied Mechanics and Engineering, 2013, 264, 163-177.	3.4	55
30	A high-order and unconditionally stable scheme for the modified anomalous fractional sub-diffusion equation with a nonlinear source term. Journal of Computational Physics, 2013, 240, 36-48.	1.9	99
31	Numerical Solution of Nonlinear Kaup-Kupershmit Equation, KdV-KdV and Hirota-Satsuma Systems. International Journal of Nonlinear Sciences and Numerical Simulation, 2012, 13, 479-486.	0.4	2
32	Solitary wave solutions of the nonlinear generalized Pochhammerâ€“Chree and regularized long wave equations. Nonlinear Dynamics, 2012, 70, 2463-2474.	2.7	20
33	Numerical solution of nonlinear Jaulentâ€“Miodek and Whithamâ€“Broerâ€“Kaup equations. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4602-4610.	1.7	12
34	Efficient numerical algorithms for the solution of â€œgoodâ€•Boussinesq equation in water wave propagation. Computer Physics Communications, 2011, 182, 2464-2470.	3.0	14
35	High-order compact solution of the one-dimensional heat and advectionâ€“diffusion equations. Applied Mathematical Modelling, 2010, 34, 3071-3084.	2.2	129
36	High-order solution of one-dimensional sineâ€“Gordon equation using compact finite difference and DIRKN methods. Mathematical and Computer Modelling, 2010, 51, 537-549.	2.0	79

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37	High-order scheme for determination of a control parameter in an inverse problem from the over-specified data. Computer Physics Communications, 2010, 181, 1947-1954.	3.0	33
38	High order implicit collocation method for the solution of twoâ€dimensional linear hyperbolic equation. Numerical Methods for Partial Differential Equations, 2009, 25, 232-243.	2.0	82
39	Fourth-order compact solution of the nonlinear Klein-Gordon equation. Numerical Algorithms, 2009, 52, 523-540.	1.1	76
40	The use of compact boundary value method for the solution of two-dimensional SchrÃ¶dinger equation. Journal of Computational and Applied Mathematics, 2009, 225, 124-134.	1.1	69
41	Direct numerical method for an inverse problem of a parabolic partial differential equation. Journal of Computational and Applied Mathematics, 2009, 232, 351-360.	1.1	30
42	The combination of collocation, finite difference, and multigrid methods for solution of the twoâ€dimensional wave equation. Numerical Methods for Partial Differential Equations, 2008, 24, 897-910.	2.0	34
43	High order compact solution of the oneâ€spaceâ€dimensional linear hyperbolic equation. Numerical Methods for Partial Differential Equations, 2008, 24, 1222-1235.	2.0	81
44	High-order compact boundary value method for the solution of unsteady convectionâ€“diffusion problems. Mathematics and Computers in Simulation, 2008, 79, 683-699.	2.4	60