Omid Nikan

List of Publications by Year
in descending order

50	1,221	236925	414414
papers	citations	25	32
		h-index	g-index

50	50	50	365
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of time fractional Black–Scholes European option pricing model arising in financial market. Computational and Applied Mathematics, 2019, 38, 1.	2.2	68
2	Numerical approximation of the nonlinear time-fractional telegraph equation arising in neutron transport. Communications in Nonlinear Science and Numerical Simulation, 2021, 99, 105755.	3.3	50
3	A Computational Method Based on the Moving Least-Squares Approach for Pricing Double Barrier Options in a Time-Fractional Black–Scholes Model. Computational Economics, 2020, 55, 119-141.	2.6	47
4	Numerical approach for modeling fractional heat conduction in porous medium with the generalized Cattaneo model. Applied Mathematical Modelling, 2021, 100, 107-124.	4.2	45
5	Numerical analysis of the fractional evolution model for heat flow in materials with memory. AEJ - Alexandria Engineering Journal, 2020, 59, 2627-2637.	6.4	44
6	A local stabilized approach for approximating the modified time-fractional diffusion problem arising in heat and mass transfer. Journal of Advanced Research, 2021, 32, 45-60.	9.5	42
7	Numerical approach for modeling fractal mobile/immobile transport model in porous and fractured media. International Communications in Heat and Mass Transfer, 2020, 111, 104443.	5.6	40
8	Numerical simulation of fractional evolution model arising in viscoelastic mechanics. Applied Numerical Mathematics, 2021, 169, 303-320.	2.1	40
9	Numerical study of the nonlinear anomalous reaction–subdiffusion process arising in the electroanalytical chemistry. Journal of Computational Science, 2021, 53, 101394.	2.9	39
10	An improved localized radial basis-pseudospectral method for solving fractional reaction–subdiffusion problem. Results in Physics, 2021, 23, 104048.	4.1	38
11	Numerical solution of time-fractional fourth-order reaction-diffusion model arising in composite environments. Applied Mathematical Modelling, 2021, 89, 819-836.	4.2	37
12	Soliton solutions of the nonlinear sine-Gordon model with Neumann boundary conditions arising in crystal dislocation theory. Nonlinear Dynamics, 2021, 106, 783-813.	5.2	34
13	Numerical evaluation of fractional Tricomi-type model arising from physical problems of gas dynamics. Journal of Advanced Research, 2020, 25, 205-216.	9.5	33
14	An efficient local meshless approach for solving nonlinear time-fractional fourth-order diffusion model. Journal of King Saud University - Science, 2021, 33, 101243.	3.5	33
15	A computational approach for the space-time fractional advection–diffusion equation arising in contaminant transport through porous media. Engineering With Computers, 2021, 37, 3615-3627.	6.1	32
16	Numerical Investigation of the Time Fractional Mobile-Immobile Advection-Dispersion Model Arising from Solute Transport in Porous Media. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	31
17	Numerical investigation of fractional nonlinear sine-Gordon and Klein-Gordon models arising in relativistic quantum mechanics. Engineering Analysis With Boundary Elements, 2020, 120, 223-237.	3.7	31
18	An efficient localized meshless technique for approximating nonlinear sinh-Gordon equation arising in surface theory. Engineering Analysis With Boundary Elements, 2021, 130, 268-285.	3.7	31

#	Article	IF	Citations
19	An efficient local meshless method for the equal width equation in fluid mechanics. Engineering Analysis With Boundary Elements, 2021, 131, 258-268.	3.7	31
20	Numerical computation of the time non-linear fractional generalized equal width model arising in shallow water channel. Thermal Science, 2020, 24, 49-58.	1.1	30
21	Coupling of the Crank–Nicolson scheme and localized meshless technique for viscoelastic wave model in fluid flow. Journal of Computational and Applied Mathematics, 2021, 398, 113695.	2.0	29
22	Numerical investigation of the nonlinear modified anomalous diffusion process. Nonlinear Dynamics, 2019, 97, 2757-2775.	5.2	28
23	Solitary wave solution of the nonlinear KdV-Benjamin-Bona-Mahony-Burgers model via two meshless methods. European Physical Journal Plus, 2019, 134, 1.	2.6	28
24	Numerical solution of the fractional Rayleigh–Stokes model arising in a heated generalized second-grade fluid. Engineering With Computers, 2020, 37, 1751.	6.1	28
25	Solitary Wave Solutions of the Generalized Rosenau-KdV-RLW Equation. Mathematics, 2020, 8, 1601.	2.2	28
26	The impact of LRBF-FD on the solutions of the nonlinear regularized long wave equation. Mathematical Sciences, 2021, 15, 365-376.	1.7	27
27	Soliton wave solutions of nonlinear mathematical models in elastic rods and bistable surfaces. Engineering Analysis With Boundary Elements, 2022, 143, 14-27.	3.7	27
28	A localisation technique based on radial basis function partition of unity for solving Sobolev equation arising in fluid dynamics. Applied Mathematics and Computation, 2021, 401, 126063.	2.2	26
29	Numerical evaluation of the fractional Klein–Kramers model arising in molecular dynamics. Journal of Computational Physics, 2021, 428, 109983.	3.8	23
30	Numerical approximation of the time fractional cable model arising in neuronal dynamics. Engineering With Computers, 0, , 1.	6.1	23
31	A locally stabilized radial basis function partition of unity technique for the sine–Gordon system in nonlinear optics. Mathematics and Computers in Simulation, 2022, 199, 394-413.	4.4	23
32	Numerical simulation of the nonlinear fractional regularized long-wave model arising in ion acoustic plasma waves. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 3685.	1.1	17
33	Creep life prediction for Sn-5Sb lead-free solder alloy: Model and experiment. Microelectronic Engineering, 2019, 207, 55-65.	2.4	15
34	Modeling high temperature deformation characteristics of AA7020 aluminum alloy using substructure-based constitutive equations and mesh-free approximation method. Mechanics of Materials, 2019, 129, 104-112.	3.2	15
35	Numerical treatment of microscale heat transfer processes arising in thin films of metals. International Communications in Heat and Mass Transfer, 2022, 132, 105892.	5.6	15
36	Localized kernel–based meshless method for pricing financial options underlying fractal transmission system. Mathematical Methods in the Applied Sciences, 0, , .	2.3	14

#	Article	IF	Citations
37	Efficient alternating direction implicit numerical approaches for multi-dimensional distributed-order fractional integro differential problems. Computational and Applied Mathematics, 2022, 41, .	2.2	12
38	Numerical simulation of a degenerate parabolic problem occurring in the spatial diffusion of biological population. Chaos, Solitons and Fractals, 2021, 151, 111220.	5.1	11
39	Solution for generalized fuzzy fractional Kortewege-de Varies equationÂusing a robust fuzzy double parametric approach. Journal of Ocean Engineering and Science, 2023, 8, 602-622.	4.3	11
40	Note on Using Radial Basis Functions Method for Solving Nonlinear Integral Equations. Communications in Numerical Analysis, 2016, 2016, 81-91.	0.1	8
41	An accurate localized meshfree collocation technique for the telegraph equation in propagation of electrical signals. Engineering With Computers, 2023, 39, 2327-2344.	6.1	8
42	Numerical treatment of the space fractional advectionâ€"dispersion model arising in groundwater hydrology. Computational and Applied Mathematics, 2021, 40, 1.	2.2	6
43	Traveling wave solutions of the nonlinear Gilsonâ€"Pickering equationÂin crystal lattice theory. Journal of Ocean Engineering and Science, 2024, 9, 40-49.	4.3	6
44	Numerical Approximation of the Fractional Rayleighâ€"Stokes Problem Arising in a Generalised Maxwell Fluid. Fractal and Fractional, 2022, 6, 377.	3.3	5
45	Numerical analysis of time-fractional Sobolev equation for fluid-driven processes in impermeable rocks. , 2022, 2022, .		4
46	The Impact of Chebyshev Collocation Method on Solutions of fractional Advectionâ€"Diffusion Equation. International Journal of Applied and Computational Mathematics, 2020, 6, 1.	1.6	3
47	Numerical investigation of the two-dimensional space-time fractional diffusion equation in porous media. Mathematical Sciences, 2021, 15, 153-160.	1.7	2
48	Numerical computation of the time non-linear fractional generalized equal width model arising in shallow water channel. Thermal Science, 2020, 24, 49-58.	1.1	2
49	Approximation of the initial value for damped nonlinear hyperbolic equations with random Gaussian white noise on the measurements. AIMS Mathematics, 2022, 7, 12620-12634.	1.6	1
50	Multiplicity results for a nonlocal fractional problem. Computational and Applied Mathematics, 2022, 41, .	2.2	0