

# Omid Nikan

## List of Publications by Year in descending order

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50  
papers

1,221  
citations

236925

25  
h-index

414414

32  
g-index

50  
all docs

50  
docs citations

50  
times ranked

365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Traveling wave solutions of the nonlinear Gilsonâ€“Pickering equation in crystal lattice theory. Journal of Ocean Engineering and Science, 2024, 9, 40-49.	4.3	6
2	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
3	Solution for generalized fuzzy fractional Korteweg-de Varies equation using a robust fuzzy double parametric approach. Journal of Ocean Engineering and Science, 2023, 8, 602-622.	4.3	11
4	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
5	A locally stabilized radial basis function partition of unity technique for the sineâ€“Gordon system in nonlinear optics. Mathematics and Computers in Simulation, 2022, 199, 394-413.	4.4	23
6	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
7	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
8	Numerical analysis of time-fractional Sobolev equation for fluid-driven processes in impermeable rocks. , 2022, 2022, .		4
9	Multiplicity results for a nonlocal fractional problem. Computational and Applied Mathematics, 2022, 41, .	2.2	0
10	Numerical Approximation of the Fractional Rayleighâ€“Stokes Problem Arising in a Generalised Maxwell Fluid. Fractal and Fractional, 2022, 6, 377.	3.3	5
11	Efficient alternating direction implicit numerical approaches for multi-dimensional distributed-order fractional integro differential problems. Computational and Applied Mathematics, 2022, 41, .	2.2	12
12	A computational approach for the space-time fractional advectionâ€“diffusion equation arising in contaminant transport through porous media. Engineering With Computers, 2021, 37, 3615-3627.	6.1	32
13	Numerical solution of time-fractional fourth-order reaction-diffusion model arising in composite environments. Applied Mathematical Modelling, 2021, 89, 819-836.	4.2	37
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	Numerical evaluation of the fractional Kleinâ€“Kramers model arising in molecular dynamics. Journal of Computational Physics, 2021, 428, 109983.	3.8	23
16	Numerical treatment of the space fractional advectionâ€“dispersion model arising in groundwater hydrology. Computational and Applied Mathematics, 2021, 40, 1.	2.2	6
17	The impact of LRBF-FD on the solutions of the nonlinear regularized long wave equation. Mathematical Sciences, 2021, 15, 365-376.	1.7	27
18	Numerical investigation of the two-dimensional space-time fractional diffusion equation in porous media. Mathematical Sciences, 2021, 15, 153-160.	1.7	2

#	ARTICLE	IF	CITATIONS
19	An improved localized radial basis-pseudospectral method for solving fractional reactionâ€“subdiffusion problem. Results in Physics, 2021, 23, 104048.	4.1	38
20	Numerical study of the nonlinear anomalous reactionâ€“subdiffusion process arising in the electroanalytical chemistry. Journal of Computational Science, 2021, 53, 101394.	2.9	39
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	Numerical simulation of fractional evolution model arising in viscoelastic mechanics. Applied Numerical Mathematics, 2021, 169, 303-320.	2.1	40
29	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
30	Coupling of the Crankâ€“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
31	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
32	A Computational Method Based on the Moving Least-Squares Approach for Pricing Double Barrier Options in a Time-Fractional Blackâ€“Scholes Model. Computational Economics, 2020, 55, 119-141.	2.6	47
33	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
34	Numerical solution of the fractional Rayleighâ€“Stokes model arising in a heated generalized second-grade fluid. Engineering With Computers, 2020, 37, 1751.	6.1	28
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Solitary Wave Solutions of the Generalized Rosenau-KdV-RLW Equation. Mathematics, 2020, 8, 1601.	2.2	28
38	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
39	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
40	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
41	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
42	Numerical investigation of the nonlinear modified anomalous diffusion process. Nonlinear Dynamics, 2019, 97, 2757-2775.	5.2	28
43	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
44	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
45	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
46	Creep life prediction for Sn-5Sb lead-free solder alloy: Model and experiment. Microelectronic Engineering, 2019, 207, 55-65.	2.4	15
47	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
48	Note on Using Radial Basis Functions Method for Solving Nonlinear Integral Equations. Communications in Numerical Analysis, 2016, 2016, 81-91.	0.1	8
49	Numerical approximation of the time fractional cable model arising in neuronal dynamics. Engineering With Computers, 0, , 1.	6.1	23
50	Localized kernel-based meshless method for pricing financial options underlying fractal transmission system. Mathematical Methods in the Applied Sciences, 0, , .	2.3	14