Imtiaz Ahmad

List of Publications by Year
in descending order

41	1,172	19	33
papers	citations	h-index	g-index

394421 (above h-index box)
395702 (above g-index box)

42	42	42	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NUMERICAL SOLUTION OF TRAVELING WAVES IN CHEMICAL KINETICS: TIME-FRACTIONAL FISHERS EQUATIONS. Fractals, 2022, 30, .	3.7	196
2	Solution of Multi-Term Time-Fractional PDE Models Arising in Mathematical Biology and Physics by Local Meshless Method. Symmetry, 2020, 12, 1195.	2.2	84
3	A new analyzing technique for nonlinear time fractional Cauchy reaction-diffusion model equations. Results in Physics, 2020, 19, 103462.	4.1	83
4	Analysing time-fractional exotic options via efficient local meshless method. Results in Physics, 2020, 19, 103385.	4.1	61
5	Application of local meshless method for the solution of two term time fractional-order multi-dimensional PDE arising in heat and mass transfer. Thermal Science, 2020, 24, 95-105.	1.1	51
6	Modified Variational Iteration Algorithm-II: Convergence and Applications to Diffusion Models. Complexity, 2020, 2020, 1-14.	1.6	49
7	Numerical simulation of simulate an anomalous solute transport model via local meshless method. AEJ - Alexandria Engineering Journal, 2020, 59, 2827-2838.	6.4	48
8	Local RBF method for multi-dimensional partial differential equations. Computers and Mathematics With Applications, 2017, 74, 292-324.	2.7	41
9	Gaussian radial basis functions method for linear and nonlinear convection–diffusion models in physical phenomena. Open Physics, 2021, 19, 69-76.	1.7	35
10	A comparative analysis of local meshless formulation for multi-asset option models. Engineering Analysis With Boundary Elements, 2016, 65, 159-176.	3.7	30
11	Applications of Haar Wavelet-Finite Difference Hybrid Method and Its Convergence for Hyperbolic Nonlinear Schrödinger Equation with Energy and Mass Conversion. Energies, 2021, 14, 7831.	3.1	30
12	Numerical solution of time-fractional coupled Korteweg–de Vries and Klein–Gordon equations by local meshless method. Pramana - Journal of Physics, 2021, 95, 1.	1.8	28
13	Solution of fractional-order Korteweg-de Vries and Burgers' equations utilizing local meshless method. Journal of Ocean Engineering and Science, 2021, , .	4.3	28
14	A numerical Haar wavelet-finite difference hybrid method for linear and non-linear Schrödinger equation. Mathematics and Computers in Simulation, 2019, 165, 13-25.	4.4	27
15	Numerical simulation of 3-D fractional-order convection-diffusion PDE by a local meshless method. Thermal Science, 2021, 25, 347-358.	1.1	27
16	Local meshless method for PDEs arising from models of wound healing. Applied Mathematical Modelling, 2017, 48, 688-710.	4.2	26
17	Symmetric Radial Basis Function Method for Simulation of Elliptic Partial Differential Equations. Mathematics, 2018, 6, 327.	2.2	23
18	An Efficient Local Formulation for Time–Dependent PDEs. Mathematics, 2019, 7, 216.	2.2	22

#	Article	IF	Citations
19	Meshless Technique for the Solution of Time-Fractional Partial Differential Equations Having Real-World Applications. Journal of Function Spaces, 2020, 2020, 1-17.	0.9	21
20	A Haar wavelet-based scheme for finding the control parameter in nonlinear inverse heat conduction equation. Open Physics, 2021, 19, 722-734.	1.7	21
21	A local meshless method for the numerical solution of space–dependent inverse heat problems. Mathematical Methods in the Applied Sciences, 2021, 44, 3066-3079.	2.3	20
22	Numerical study of integer-order hyperbolic telegraph model arising in physical and related sciences. European Physical Journal Plus, 2020, 135, 1.	2.6	19
23	Numerical Simulation of PDEs by Local Meshless Differential Quadrature Collocation Method. Symmetry, 2019, 11, 394.	2.2	18
24	A three-dimensional chaotic map and their applications to digital audio security. Multimedia Tools and Applications, 2021, 80, 22251-22273.	3.9	16
25	Meshless method based on RBFs for solving three-dimensional multi-term time fractional PDEs arising in engineering phenomenons. Journal of King Saud University - Science, 2021, 33, 101604.	3.5	16
26	Numerical solution of two-term time-fractional PDE models arising in mathematical physics using local meshless method. Open Physics, 2020, 18, 1063-1072.	1.7	16
27	A Novel Meshfree Strategy for a Viscous Wave Equation With Variable Coefficients. Frontiers in Physics, 2021, 9, .	2.1	14
28	Spectroscopic Analysis for Harnessing the Quality and Potential of Gemstones for Small and Medium-Sized Enterprises (SMEs). Journal of Spectroscopy, 2021, 2021, 1-12.	1.3	13
29	Numerical Simulation of Partial Differential Equations via Local Meshless Method. Symmetry, 2019, 11, 257.	2.2	12
30	Numerical study of multi-dimensional hyperbolic telegraph equations arising in nuclear material science via an efficient local meshless method. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 115-122.	1.0	12
31	Local meshless differential quadrature collocation method for time-fractional PDEs. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 2641-2654.	1.1	12
32	Solution of Burgers' equation appears in fluid mechanics by multistage optimal homotopy asymptotic method. Thermal Science, 2022, 26, 815-821.	1.1	12
33	Formation of Intermetallic Phases in Ion Implantation. Journal of Mathematics, 2020, 2020, 1-5.	1.0	10
34	An extension of optimal auxiliary function method to fractional order high dimensional equations. AEJ - Alexandria Engineering Journal, 2021, 60, 4809-4818.	6.4	10
35	Extension of optimal homotopy asymptotic method with use of Daftardar–Jeffery polynomials to Hirota–Satsuma coupled system of Korteweg–de Vries equations. Open Physics, 2020, 18, 916-924.	1.7	10
36	An Efficient Meshless Method for Hyperbolic Telegraph Equations in (1 + 1) Dimensions. CMES - Computer Modeling in Engineering and Sciences, 2021, 128, 687-698.	1.1	9

#	Article	IF	Citations
37	New algorithms for approximation of Bessel transforms with high frequency parameter. Journal of Computational and Applied Mathematics, 2022, 399, 113705.	2.0	8
38	Multistage optimal homotopy asymptotic method for the K(2,2) equation arising in solitary waves theory. Thermal Science, 2021, 25, 199-205.	1.1	6
39	A case study on alleviating electric transmission congestion using dynamic thermal rating methodology. , 2014, , .		4
40	Application of local meshless method for the solution of two term time fractional-order multi-dimensional PDE arising in heat and mass transfer. Thermal Science, 2020, 24, 95-105.	1.1	3
41	Some Iterative Approximation Results of F Iteration Process in Banach Spaces. Axioms, 2022, 11, 153.	1.9	0