Ram Jiwari

List of Publications by Year
in descending order

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54 papers	1,727 citations	257450 24 h-index	289244 40 g-index
54 all docs	54 docs citations	54 times ranked	624 citing authors

#	Article	IF	Citations
1	Lie group analysis, exact solutions and conservation laws to compressible isentropic Navierâ€“Stokes equation. Engineering With Computers, 2022, 38, 2027-2036.	6.1	27
2	Radial basis functions based meshfree schemes for the simulation of non-linear extended Fisherâ€“Kolmogorov model. Wave Motion, 2022, 109, 102863.	2.0	16
3	A hybrid approach based on Legendre wavelet for numerical simulation of Helmholtz equation with complex solution. International Journal of Computer Mathematics, 2022, 99, 2221-2236.	1.8	7
4	Local RBF-FD-Based Mesh-free Scheme for Singularly Perturbed Convection-Diffusion-Reaction Models with Variable Coefficients. Journal of Mathematics, 2022, 2022, 1-11.	1.0	3
5	Wavelet Operational Matrices and Lagrange Interpolation Differential Quadrature-Based Numerical Algorithms for Simulation of Nanofluid in Porous Channel. Journal of Mathematics, 2022, 2022, 1-14.	1.0	1
6	Local radial basis function-finite difference based algorithms for singularly perturbed Burgersâ€™ model. Mathematics and Computers in Simulation, 2022, 198, 106-126.	4.4	13
7	Analyzing Similarity Solution of Modified Fisher Equation. Journal of Mathematics, 2022, 2022, 1-9.	1.0	2
8	A Comparative Study of Cubic B-spline-Based Quasi-interpolation and Differential Quadrature Methods for Solving Fourth-Order Parabolic PDEs. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2021, 91, 461-474.	1.2	5
9	Barycentric rational interpolation and local radial basis functions based numerical algorithms for multidimensional <scp>sineâ€Gordon</scp> equation. Numerical Methods for Partial Differential Equations, 2021, 37, 1965-1992.	3.6	19
10	A local radial basis function differential quadrature semi-discretisation technique for the simulation of time-dependent reaction-diffusion problems. Engineering Computations, 2021, 38, 2666-2691.	1.4	10
11	Dark and bright soliton solutions and computational modeling of nonlinear regularized long wave model. Nonlinear Dynamics, 2021, 104, 661-682.	5.2	32
12	A note on numerical solution of classical Darboux problem. Mathematical Methods in the Applied Sciences, 2021, 44, 12998-13007.	2.3	6
13	A cubic B-spline quasi-interpolation method for solving two-dimensional unsteady advection diffusion equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4281-4306.	2.8	11
14	Legendre wavelets based numerical algorithm for simulation of multidimensional Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers and Sobolev equations. Computers and Mathematics With Applications, 2020, 80, 417-433.	2.7	13
15	A meshfree approach for analysis and computational modeling of non-linear SchrÃ¶dinger equation. Computational and Applied Mathematics, 2020, 39, 1.	2.2	17
16	Numerical simulation for computational modelling of reactionâ€“diffusion Brusselator model arising in chemical processes. Journal of Mathematical Chemistry, 2019, 57, 149-179.	1.5	22
17	A class of numerical algorithms based on cubic trigonometric B-spline functions for numerical simulation of nonlinear parabolic problems. Computational and Applied Mathematics, 2019, 38, 1.	2.2	21
18	Meshfree algorithms based on radial basis functions for numerical simulation and to capture shocks behavior of Burgersâ€™ type problems. Engineering Computations, 2019, 36, 1142-1168.	1.4	26

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19	Some soliton-type analytical solutions and numerical simulation of nonlinear SchrÃ¶dinger equation. Nonlinear Dynamics, 2019, 95, 2825-2836.	5.2	23
20	A finite element approach to capture Turing patterns of autocatalytic Brusselator model. Journal of Mathematical Chemistry, 2019, 57, 769-789.	1.5	18
21	A finite element approach for analysis and computational modelling of coupled reaction diffusion models. Numerical Methods for Partial Differential Equations, 2019, 35, 830-850.	3.6	30
22	A numerical algorithm for computational modelling of coupled advection-diffusion-reaction systems. Engineering Computations, 2018, 35, 1383-1401.	1.4	14
23	A numerical algorithm for computation modelling of 3D nonlinear wave equations based on exponential modified cubic B-spline differential quadrature method. International Journal of Computer Mathematics, 2018, 95, 752-766.	1.8	18
24	Finite element analysis and approximation of Burgersâ€™â€Fisher equation. Numerical Methods for Partial Differential Equations, 2017, 33, 1652-1677.	3.6	40
25	Haar wavelets operational matrix based algorithm for computational modelling of hyperbolic type wave equations. Engineering Computations, 2017, 34, 2793-2814.	1.4	42
26	A new algorithm based on modified trigonometric cubic B-splines functions for nonlinear Burgersâ€™-type equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1638-1661.	2.8	17
27	Numerical simulation to capture the pattern formation of coupled reaction-diffusion models. Chaos, Solitons and Fractals, 2017, 103, 422-439.	5.1	28
28	Recent Trends in Computational and Theoretical Aspects in Differential and Difference Equations. Journal of Mathematics, 2017, 2017, 1-1.	1.0	0
29	Conversion of fuzzy automata into fuzzy regular expressions using transitive closure. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3123-3129.	1.4	5
30	An algorithm based on exponential modified cubic B-spline differential quadrature method for nonlinear Burgersâ€™ equation. Applied Mathematics and Computation, 2016, 290, 111-124.	2.2	67
31	A Differential Quadrature based procedure for parameter identification. Applied Mathematics and Computation, 2016, 290, 460-466.	2.2	6
32	Parallel Fuzzy Regular Expression and its Conversion to Epsilon-Free Fuzzy Automaton. Computer Journal, 2016, 59, 1383-1391.	2.4	1
33	Cosine expansion based differential quadrature algorithm for numerical simulation of two dimensional hyperbolic equations with variable coefficients. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1574-1589.	2.8	25
34	Exact and numerical solutions of coupled short pulse equation with time-dependent coefficients. Nonlinear Dynamics, 2015, 79, 455-464.	5.2	40
35	Lagrange interpolation and modified cubic B-spline differential quadrature methods for solving hyperbolic partial differential equations with Dirichlet and Neumann boundary conditions. Computer Physics Communications, 2015, 193, 55-65.	7.5	60
36	A hybrid numerical scheme for the numerical solution of the Burgersâ€™ equation. Computer Physics Communications, 2015, 188, 59-67.	7.5	126

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37	A numerical scheme based on differential quadrature method for numerical simulation of nonlinear Klein-Gordon equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 1390-1404.	2.8	29
38	A computational modeling of two dimensional reactionâ€“diffusion Brusselator system arising in chemical processes. Journal of Mathematical Chemistry, 2014, 52, 1535-1551.	1.5	38
39	Polynomial differential quadrature method for numerical solutions of the generalized Fitzhughâ€“Nagumo equation with time-dependent coefficients. Ain Shams Engineering Journal, 2014, 5, 1343-1350.	6.1	31
40	A numerical scheme based on weighted average differential quadrature method for the numerical solution of Burgersâ€™ equation. Applied Mathematics and Computation, 2013, 219, 6680-6691.	2.2	83
41	Numerical simulation of two dimensional quasilinear hyperbolic equations by polynomial differential quadrature method. Engineering Computations, 2013, 30, 892-909.	1.4	20
42	Comparative study of travelling-wave and numerical solutions for the coupled short pulse (CSP) equation. Chinese Physics B, 2013, 22, 050201.	1.4	16
43	PainlevÃ© Analysis, Lie Symmetries and Exact Solutions for Variable Coefficients Benjaminâ€”Bonaâ€”Mahonyâ€”Burger (BBMB) Equation. Communications in Theoretical Physics, 2013, 60, 175-182.	2.5	30
44	A numerical scheme based on differential quadrature method to solve time dependent Burgers' equation. Engineering Computations, 2012, 30, 117-131.	1.4	31
45	A Haar wavelet quasilinearization approach for numerical simulation of Burgersâ€™ equation. Computer Physics Communications, 2012, 183, 2413-2423.	7.5	156
46	A differential quadrature method for numerical solutions of Burgers'â€type equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 880-895.	2.8	70
47	Differential Quadrature Method for Numerical Solution of Coupled Viscous Burgersâ€™ Equations. International Journal for Computational Methods in Engineering Science and Mechanics, 2012, 13, 88-92.	2.1	33
48	A differential quadrature algorithm to solve the two dimensional linear hyperbolic telegraph equation with Dirichlet and Neumann boundary conditions. Applied Mathematics and Computation, 2012, 218, 7279-7294.	2.2	99
49	Numerical simulation of two-dimensional sine-Gordon solitons by differential quadrature method. Computer Physics Communications, 2012, 183, 600-616.	7.5	134
50	A Higher Order Numerical Scheme for Some Nonlinear Differential Equations: Models in Biology. International Journal for Computational Methods in Engineering Science and Mechanics, 2011, 12, 134-140.	2.1	18
51	Numerical Study of Two-Dimensional Reaction-Diffusion Brusselator System by Differential Quadrature Method. International Journal for Computational Methods in Engineering Science and Mechanics, 2011, 12, 14-25.	2.1	12
52	Numerical solution of two-dimensional reactionâ€“diffusion Brusselator system. Applied Mathematics and Computation, 2011, 217, 5404-5415.	2.2	60
53	Differential Quadrature Method for Two-Dimensional Burgers' Equations. International Journal for Computational Methods in Engineering Science and Mechanics, 2009, 10, 450-459.	2.1	45
54	A cubic B-spline quasi-interpolation algorithm to capture the pattern formation of coupled reaction-diffusion models. Engineering With Computers, 0, , 1.	6.1	11