Navnit Jha

List of Publications by Year
in descending order

31 papers	482 citations	1307594 7 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	209 citing authors

#	Article	IF	Citations
1	Modeling the Effects of Insects and Insecticides with External Efforts on Agricultural Crops. Differential Equations and Dynamical Systems, 2024, 32, 15-32.	1.0	5
2	Impact of Quasi-Variable Nodes on Numerical Integration of Parameter-Dependent Functions: A Maple Suite. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 455-462.	0.7	0
3	Modeling the effects of insecticides and external efforts on crop production. Nonlinear Analysis: Modelling and Control, 2021, 26, 1012-1030.	1.6	6
4	Modeling the effects of insects and insecticides on agricultural crops with NSFD method. Journal of Applied Mathematics and Computing, 2020, 63, 197-215.	2.5	11
5	Stability Analysis of Quasi-variable Grids Cubic Spline Fourth-Order Compact Implicit Algorithms for Burgerâ€™s Type Parabolic PDEs. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 1875-1890.	1.5	4
6	Exponential basis and exponential expanding grids third (fourth)-order compact schemes for nonlinear three-dimensional convection-diffusion-reaction equation. Advances in Difference Equations, 2019, 2019, .	3.5	3
7	A Family of Compact Finite Difference Formulations for Three-Space Dimensional Nonlinear Poissonâ€™s Equations in Cartesian Coordinates. Differential Equations and Dynamical Systems, 2018, 26, 105-123.	1.0	6
8	Geometric grid network and third-order compact scheme for solving nonlinear variable coefficients 3D elliptic PDEs. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 09, 1850053.	1.4	7
9	Compact-FDM for Mildly Nonlinear Two-Space Dimensional Elliptic BVPs in Polar Coordinate System and Its Convergence Theory. International Journal of Applied and Computational Mathematics, 2017, 3, 255-270.	1.6	1
10	A Third (Four) Order Accurate, Nine-Point Compact Scheme for Mildly-Nonlinear Elliptic Equations in Two Space Variables. Differential Equations and Dynamical Systems, 2017, 25, 223-237.	1.0	5
11	A Second Order Non-uniform Mesh Discretization for the Numerical Treatment of Singular Two-Point Boundary Value Problems with Integral Forcing Function. Advances in Intelligent Systems and Computing, 2017, , 392-403.	0.6	1
12	A fourth-order accurate quasi-variable mesh compact finite-difference scheme for two-space dimensional convection-diffusion problems. Advances in Difference Equations, 2017, 2017, .	3.5	5
13	Efficient algorithms for fourth and sixth-order two-point non-linear boundary value problems using non-polynomial spline approximations on a geometric mesh. Computational and Applied Mathematics, 2016, 35, 389-404.	1.3	3
14	A third (four)-order accurate nine-point compact EEM-FDM for coupled system of mildly non-linear elliptic equations. , 2016, , .		0
15	An exponential expanding meshes sequence and finite difference method adopted for two-dimensional elliptic equations. International Journal of Modeling, Simulation, and Scientific Computing, 2016, 07, 1650006.	1.4	5
16	A Fifth (Six) Order Accurate, Three-Point Compact Finite Difference Scheme for the Numerical Solution of Sixth Order Boundary Value Problems on Geometric Meshes. Journal of Scientific Computing, 2015, 64, 898-913.	2.3	6
17	The Convergence of Geometric Mesh Cubic Spline Finite Difference Scheme for Nonlinear Higher Order Two-Point Boundary Value Problems. International Journal of Computational Mathematics, 2014, 2014, 1-12.	0.8	0
18	Quintic hyperbolic nonpolynomial spline and finite difference method for nonlinear second order differential equations and its application. Journal of the Egyptian Mathematical Society, 2014, 22, 115-122.	1.2	3

#	Article	IF	Citations
19	A fifth order accurate geometric mesh finite difference method for general nonlinear two point boundary value problems. Applied Mathematics and Computation, 2013, 219, 8425-8434.	2.2	7
20	Geometric Mesh Three-Point Discretization for Fourth-Order Nonlinear Singular Differential Equations in Polar System. Advances in Numerical Analysis, 2013, 2013, 1-10.	0.2	1
21	TAGE iterative algorithm and nonpolynomial spline basis for the solution of nonlinear singular second order ordinary differential equations. Applied Mathematics and Computation, 2011, 218, 3289-3296.	2.2	11
22	SEIQRS model for the transmission of malicious objects in computer network. Applied Mathematical Modelling, 2010, 34, 710-715.	4.2	172
23	Alternating group explicit iterative method for nonlinear singular Fredholm Integro-differential boundary value problems. International Journal of Computer Mathematics, 2009, 86, 1645-1656.	1.8	5
24	Fixed period of temporary immunity after run of anti-malicious software on computer nodes. Applied Mathematics and Computation, 2007, 190, 1207-1212.	2.2	115
25	A sixth order accurate AGE iterative method for non-linear singular two point boundary value problems. Journal of Computational Methods in Sciences and Engineering, 2006, 6, 57-69.	0.2	6
26	A class of variable mesh spline in compression methods for singularly perturbed two point singular boundary value problems. Applied Mathematics and Computation, 2005, 168, 704-716.	2.2	35
27	An O(h4) accurate cubic spline TAGE method for nonlinear singular two point boundary value problems. Applied Mathematics and Computation, 2004, 158, 853-868.	2.2	32
28	Spline in compression method for the numerical solution of singularly perturbed two-point singular boundary-value problems. International Journal of Computer Mathematics, 2004, 81, 615-627.	1.8	21
29	Fourthâ€order compact scheme based on quasiâ€variable mesh for threeâ€dimensional mildly nonlinear stationary convectionâ€"diffusion equations. Numerical Methods for Partial Differential Equations, 0, , .	3.6	3
30	Digital Simulations for Three-dimensional Nonlinear Advection-diffusion Equations Using Quasi-variable Meshes High-resolution Implicit Compact Scheme. , 0, , 85-110.		0
31	Digital Simulations for Three-dimensional Nonlinear Advection-diffusion Equations Using Quasi-variable Meshes High-resolution Implicit Compact Scheme. , 0, , 85-110.		0