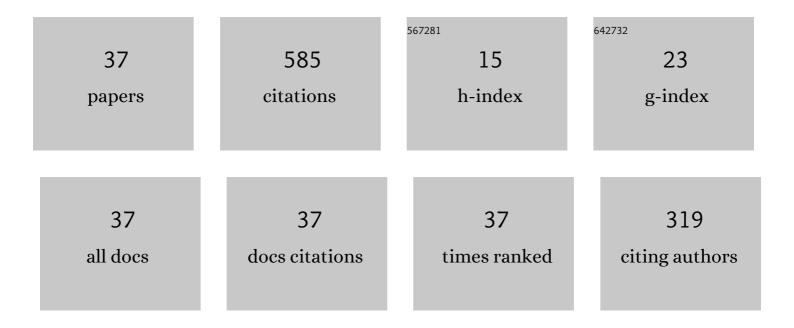
R C Mittal

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Dark and bright soliton solutions and computational modeling of nonlinear regularized long wave model. Nonlinear Dynamics, 2021, 104, 661-682. | 5.2 | 32 |
| 3 | The numerical study of advection–diffusion equations by the fourth-order cubic B-spline collocation method. Mathematical Sciences, 2020, 14, 409-423. | 1.7 | 4 |
| 4 | A meshfree approach for analysis and computational modeling of non-linear SchrĶdinger equation. Computational and Applied Mathematics, 2020, 39, 1. | 2.2 | 17 |
| 5 | A numerical study of two-dimensional coupled systems and higher order partial differential equations. Asian-European Journal of Mathematics, 2019, 12, 1950071. | 0.5 | 3 |
| 6 | Numerical simulation for computational modelling of reaction–diffusion Brusselator model arising in chemical processes. Journal of Mathematical Chemistry, 2019, 57, 149-179. | 1.5 | 22 |
| 7 | Numerical Simulation of Nonlinear SchrĶdinger Equation in One and Two Dimensions. Mathematical Models and Computer Simulations, 2019, 11, 634-648. | 0.5 | 19 |
| 8 | New Scale-3 Haar Wavelets Algorithm for Numerical Simulation of Second Order Ordinary Differential Equations. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 799-808. | 1.2 | 9 |
| 9 | Numerical study of reaction diffusion Fisher's equation by fourth order cubic B-spline collocation method. Mathematical Sciences, 2018, 12, 79-89. | 1.7 | 21 |
| 10 | Sensitivity analysis of shock wave Burgers' equation via a novel algorithm based on scale-3 Haar wavelets. International Journal of Computer Mathematics, 2018, 95, 601-625. | 1.8 | 24 |
| 11 | Numerical Study of SchrĶdinger Equation Using Differential Quadrature Method. International Journal of Applied and Computational Mathematics, 2018, 4, 1. | 1.6 | 1 |
| 12 | Traveling and Shock Wave Simulations in A Viscous Burgers' Equation with Periodic Boundary Conditions. International Journal of Applied and Computational Mathematics, 2018, 4, 1. | 1.6 | 2 |
| 13 | A Quintic B-Spline Based Differential Quadrature Method for Numerical Solution of Kuramoto-Sivashinsky Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 103-114. | 1.0 | 23 |
| 14 | A study of one dimensional nonlinear diffusion equations by Bernstein polynomial based differential quadrature method. Journal of Mathematical Chemistry, 2017, 55, 673-695. | 1.5 | 17 |
| 15 | Numerical Solutions of Symmetric Regularized Long Wave Equations Using Collocation of Cubic <i>B</i> -splines Finite Element. International Journal for Computational Methods in Engineering Science and Mechanics, 2015, 16, 142-150. | 2.1 | 11 |
| 16 | Numerical Solution of Nonlinear Sine-Gordon Equation by Modified Cubic B-Spline Collocation Method. International Journal of Partial Differential Equations, 2014, 2014, 1-8. | 0.4 | 11 |
| 17 | A Collocation Method for Numerical Solution of Hyperbolic Telegraph Equation with Neumann Boundary Conditions. International Journal of Computational Mathematics, 2014, 2014, 1-9. | 0.8 | 15 |
| 18 | Numerical solution of some nonlinear wave equations using modified cubic B-spline differential quadrature method. , 2014, , . | | 2 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Collocation Method for Numerical Solutions of Coupled Burgers' Equations. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 457-471. | 2.1 | 25 |
| 20 | Fast Finite Difference Solutions of the Three Dimensional Poisson's Equation in Cylindrical Coordinates. American Journal of Computational Mathematics, 2013, 03, 356-361. | 0.5 | 4 |
| 21 | Differential Quadrature Method for Numerical Solution of Coupled Viscous Burgers' Equations. International Journal for Computational Methods in Engineering Science and Mechanics, 2012, 13, 88-92. | 2.1 | 33 |
| 22 | 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 |
| 23 | 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 |
| 24 | A numerical study of stationary solution of viscous Burgers' equation using wavelet. International Journal of Computer Mathematics, 2010, 87, 1326-1337. | 1.8 | 7 |
| 25 | Efficient numerical solution of Fisher's equation by using B-spline method. International Journal of Computer Mathematics, 2010, 87, 3039-3051. | 1.8 | 51 |
| 26 | 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 |
| 27 | Linear time invariant system order reduction using multipoint step response matching. International Journal of Systems Science, 2007, 38, 211-217. | 5.5 | 2 |
| 28 | Numerical study of Fisher's equation by wavelet Galerkin method. International Journal of Computer Mathematics, 2006, 83, 287-298. | 1.8 | 31 |
| 29 | Numerical solution of Burger's equation. Communications in Numerical Methods in Engineering, 1993, 9, 397-406. | 1.3 | 68 |
| 30 | Calculation of zeros of a real polynomial using scaling of its coefficients. International Journal of Computer Mathematics, 1993, 48, 117-124. | 1.8 | 1 |
| 31 | High-Order Finite-Differences Schemes to Solve Poisson's Equation in Polar Coordinates. IMA Journal of Numerical Analysis, 1991, 11, 261-270. | 2.9 | 17 |
| 32 | Numerical solution of a viscous incompressible flow problem through an orifice. Flow, Turbulence and Combustion, 1987, 44, 361-375. | 0.2 | 5 |
| 33 | Fast finite difference solution for steady-state Navier-Stokes equations using the BID method. International Journal for Numerical Methods in Fluids, 1987, 7, 911-917. | 1.6 | 4 |
| 34 | High order finite difference schemes to solve Poisson's equation in cylindrical symmetry. Communications in Applied Numerical Methods, 1987, 3, 457-461. | 0.5 | 5 |
| 35 | High order difference schemes for the wave equation. International Journal for Numerical Methods in Engineering, 1978, 12, 1623-1628. | 2.8 | 8 |
| 36 | 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 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Analysis of chaotic behavior of three-dimensional dynamical systems by a B-spline differential quadrature algorithm. Asian-European Journal of Mathematics, 0, , 2250077. | 0.5 | 0 |