

Mohammad Reza Eslahchi

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

616
citations

759055

12
h-index

610775

24
g-index

41
all docs

41
docs citations

41
times ranked

392
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Application of the collocation method for solving nonlinear fractional integro-differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2014, 257, 105-128. | 1.1 | 109 |
| 2 | Fractional Sturm-Liouville boundary value problems in unbounded domains: Theory and applications. <i>Journal of Computational Physics</i> , 2015, 299, 526-560. | 1.9 | 57 |
| 3 | Numerical solution of fractional advection-diffusion equation with a nonlinear source term. <i>Numerical Algorithms</i> , 2015, 68, 601-629. | 1.1 | 54 |
| 4 | Application of Taylor series in obtaining the orthogonal operational matrix. <i>Computers and Mathematics With Applications</i> , 2011, 61, 2596-2604. | 1.4 | 42 |
| 5 | Fractional spectral and pseudo-spectral methods in unbounded domains: Theory and applications. <i>Journal of Computational Physics</i> , 2017, 338, 527-566. | 1.9 | 33 |
| 6 | A technique for the numerical solution of initial-value problems based on a class of Birkhoff-type interpolation method. <i>Journal of Computational and Applied Mathematics</i> , 2013, 244, 125-139. | 1.1 | 29 |
| 7 | A method for obtaining the operational matrix of fractional Jacobi functions and applications. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 736-748. | 1.5 | 29 |
| 8 | The general Jacobi matrix method for solving some nonlinear ordinary differential equations. <i>Applied Mathematical Modelling</i> , 2012, 36, 3387-3398. | 2.2 | 28 |
| 9 | A new approach to improve the order of approximation of the Bernstein operators: theory and applications. <i>Numerical Algorithms</i> , 2018, 77, 111-150. | 1.1 | 26 |
| 10 | Analysis of Ciarlet-Raviart mixed finite element methods for solving damped Boussinesq equation. <i>Journal of Computational and Applied Mathematics</i> , 2020, 379, 112818. | 1.1 | 22 |
| 11 | The third and fourth kinds of Chebyshev polynomials and best uniform approximation. <i>Mathematical and Computer Modelling</i> , 2012, 55, 1746-1762. | 2.0 | 21 |
| 12 | A Hybrid Image Denoising Method Based on Integer and Fractional-Order Total Variation. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2020, 44, 1803-1814. | 0.7 | 17 |
| 13 | Two families of scaled three-term conjugate gradient methods with sufficient descent property for nonconvex optimization. <i>Numerical Algorithms</i> , 2020, 83, 901-933. | 1.1 | 15 |
| 14 | Best uniform polynomial approximation of some rational functions. <i>Computers and Mathematics With Applications</i> , 2010, 59, 382-390. | 1.4 | 13 |
| 15 | Optimal Control for a Parabolic-Hyperbolic Free Boundary Problem Modeling the Growth of Tumor with Drug Application. <i>Journal of Optimization Theory and Applications</i> , 2017, 173, 1013-1041. | 0.8 | 12 |
| 16 | Image denoising by a novel variable-order total fractional variation model. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 7250-7261. | 1.2 | 11 |
| 17 | Application of collocation method for solving a parabolic-hyperbolic free boundary problem which models the growth of tumor with drug application. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 1711-1733. | 1.2 | 9 |
| 18 | Global convergence of a family of modified BFGS methods under a modified weak-Wolfe-Powell line search for nonconvex functions. <i>4or</i> , 2020, 18, 219-244. | 1.0 | 9 |

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|----|--|-----|-----------|
| 19 | Generalized Bessel functions: Theory and their applications. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 6389-6410. | 1.2 | 7 |
| 20 | Application of fixed point-collocation method for solving an optimal control problem of a parabolic-hyperbolic free boundary problem modeling the growth of tumor with drug application. <i>Computers and Mathematics With Applications</i> , 2018, 75, 2193-2216. | 1.4 | 7 |
| 21 | Solving a fractional parabolic-hyperbolic free boundary problem which models the growth of tumor with drug application using finite difference-spectral method. <i>Chaos, Solitons and Fractals</i> , 2020, 132, 109538. | 2.5 | 7 |
| 22 | Extension of Tikhonov regularization method using linear fractional programming. <i>Journal of Computational and Applied Mathematics</i> , 2020, 371, 112677. | 1.1 | 6 |
| 23 | A new PDE learning model for image denoising. <i>Neural Computing and Applications</i> , 2022, 34, 8551-8574. | 3.2 | 6 |
| 24 | Quadrature rules using an arbitrary fixed order of derivatives. <i>Computers and Mathematics With Applications</i> , 2009, 57, 1212-1225. | 1.4 | 5 |
| 25 | A numerical method based on extended Raviart-Thomas (ER τ) mixed finite element method for solving damped Boussinesq equation. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 5906-5924. | 1.2 | 5 |
| 26 | A new method for detecting individual trees in aerial LiDAR point clouds using absolute height maxima. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 708. | 1.3 | 5 |
| 27 | The best uniform polynomial approximation to class of the form. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009, 71, 740-750. | 0.6 | 4 |
| 28 | The use of Jacobi wavelets for constrained approximation of rational Bézier curves. <i>Computational and Applied Mathematics</i> , 2018, 37, 3951-3966. | 1.3 | 4 |
| 29 | Global convergence of a new sufficient descent spectral three-term conjugate gradient class for large-scale optimization. <i>Optimization Methods and Software</i> , 2022, 37, 830-843. | 1.6 | 4 |
| 30 | A mixed finite element method for solving coupled wave equation of Kirchhoff type with nonlinear boundary damping and memory term. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 12500. | 1.2 | 4 |
| 31 | The convergence and stability analysis of the Jacobi collocation method for solving nonlinear fractional differential equations with integral boundary conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2016, 39, 2038-2056. | 1.2 | 3 |
| 32 | Numerical solution of optimal control problem for a model of tumour growth with drug application. <i>International Journal of Control</i> , 2019, 92, 2712-2736. | 1.2 | 3 |
| 33 | Optimal control for a nonlinear stochastic parabolic model of population competition. <i>Optimization</i> , 2020, , 1-30. | 1.0 | 2 |
| 34 | Müntz sturm-liouville problems: Theory and numerical experiments. <i>Fractional Calculus and Applied Analysis</i> , 2021, 24, 775-817. | 1.2 | 2 |
| 35 | Application of finite difference method in solving a second- and fourth-order PDE blending denoising model. <i>Mathematical Sciences</i> , 0, , 1. | 1.0 | 2 |
| 36 | Some applications of a hypergeometric identity. <i>Mathematical Sciences</i> , 2015, 9, 215-223. | 1.0 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | The convergence and stability analysis of a numerical method for solving a mathematical model of language competition. <i>Applied Numerical Mathematics</i> , 2020, 151, 119-140. | 1.2 | 1 |
| 38 | Error analysis of finite difference/collocation method for the nonlinear coupled parabolic free boundary problem modeling plaque growth in the artery. <i>Applied Mathematics and Computation</i> , 2021, 405, 126221. | 1.4 | 1 |
| 39 | A Five-Parameter Class of Derivative-Free Spectral Conjugate Gradient Methods for Systems of Large-Scale Nonlinear Monotone Equations. <i>International Journal of Computational Methods</i> , 2022, 19, . | 0.8 | 1 |
| 40 | The weighted $(0,1, \hat{\alpha}^2, m)$ -interpolation technique based on the roots of the classical orthogonal polynomials and application in deriving new quadrature rules. <i>Acta Mathematica Hungarica</i> , 2013, 140, 341-362. | 0.3 | 0 |
| 41 | A game-theoretic perspective to study a nonlinear stochastic parabolic model of population competition. <i>Optimization</i> , 2023, 72, 1777-1815. | 1.0 | 0 |