

Charis Harley

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

322
citations

1051969

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h-index

1051228

16
g-index

48
all docs

48
docs citations

48
times ranked

254
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Generalized forms of fractional Euler and Runge-Kutta methods using non-uniform grid. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 2089-2111. | 0.4 | 7 |
| 2 | Preface to special issue of selected papers from the 13th International Symposium on Numerical Analysis of Fluid Flow, Heat and Mass Transfer "Numerical Fluids 2018. Computers and Mathematics With Applications, 2021, 83, 1-3. | 1.4 | 1 |
| 3 | Models and muddles in the COVID-19 pandemic. South African Journal of Science, 2021, 117, . | 0.3 | 1 |
| 4 | Elastic waves in a circular cylinder and cylindrical annulus for a subclass of implicit constitutive equations. Mathematics and Mechanics of Solids, 2020, 25, 201-233. | 1.5 | 2 |
| 5 | Numerical Convergence Analysis of the Frank-Kamenetskii Equation. Entropy, 2020, 22, 84. | 1.1 | 0 |
| 6 | Numerical simulations describing inhomogeneous non-unidirectional deformations of an elastic wedge. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 7 | Inhomogeneous non-unidirectional deformations of an elastic wedge. Quarterly Journal of Mechanics and Applied Mathematics, 2019, 72, 1-23. | 0.5 | 0 |
| 8 | Reversal of flow of a non-Newtonian fluid in an expanding channel. International Journal of Non-Linear Mechanics, 2018, 101, 44-55. | 1.4 | 13 |
| 9 | Two-dimensional nonlinear stress and displacement waves for a new class of constitutive equations. Wave Motion, 2018, 77, 156-185. | 1.0 | 3 |
| 10 | Numerical simulations of early star formation with "soft" equations of state. AIP Conference Proceedings, 2018, , . | 0.3 | 0 |
| 11 | Application of Nonlinear Time-Fractional Partial Differential Equations to Image Processing via Hybrid Laplace Transform Method. Journal of Mathematics, 2018, 2018, 1-9. | 0.5 | 8 |
| 12 | Testing of mathematica in the computation of two-phase flow equations. AIP Conference Proceedings, 2018, , . | 0.3 | 1 |
| 13 | Numerical simulation of unsteady triple diffusive mixed convection in NaCl-water and Sucrose-water solutions. International Journal of Heat and Mass Transfer, 2018, 126, 147-155. | 2.5 | 13 |
| 14 | Heat as a hydraulic tracer for horizontal subsurface flow constructed wetlands. Journal of Water Process Engineering, 2017, 16, 183-192. | 2.6 | 6 |
| 15 | On the relation of isothermal collapse to steady Bondi-accretion. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 16 | Conservation laws and conserved quantities for (1+1)D linearized Boussinesq equations. Communications in Nonlinear Science and Numerical Simulation, 2017, 46, 37-48. | 1.7 | 0 |
| 17 | Nonstandard Finite Difference Method Applied to a Linear Pharmacokinetics Model. Bioengineering, 2017, 4, 40. | 1.6 | 12 |
| 18 | Heat Transfer in a Porous Radial Fin: Analysis of Numerically Obtained Solutions. Advances in Mathematical Physics, 2017, 2017, 1-20. | 0.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Noether Symmetry Analysis of the Dynamic Euler-Bernoulli Beam Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 447-456. Error bounds in approximating the Riemannâ€”Stieltjes integral of $\langle \mathbb{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$ | 0.7 | 3 |
| 20 | Two Hybrid Methods for Solving Two-Dimensional Linear Time-Fractional Partial Differential Equations. Abstract and Applied Analysis, 2014, 2014, 1-10. | 1.4 | 0 |
| 21 | Two Hybrid Methods for Solving Two-Dimensional Linear Time-Fractional Partial Differential Equations. Abstract and Applied Analysis, 2014, 2014, 1-10. | 0.3 | 9 |
| 22 | Mean action time as a measure for fin performance in one dimensional fins of exponential profiles. Applied Mathematics and Computation, 2014, 238, 319-328. | 1.4 | 2 |
| 23 | Numerical investigation of the parabolic mixed derivative diffusion equation via Alternating Direction Implicit methods. Computers and Mathematics With Applications, 2013, 66, 1452-1465. | 1.4 | 1 |
| 24 | On the Use of Backward Difference Formulae to Improve the Prediction of Direction in Market Related Data. Mathematical Problems in Engineering, 2013, 2013, 1-5. | 0.6 | 1 |
| 25 | Asymptotic and Dynamical Analyses of Heat Transfer through a Rectangular Longitudinal Fin. Journal of Applied Mathematics, 2013, 2013, 1-8. | 0.4 | 9 |
| 26 | A Numerical Well-Balanced Scheme for One-Dimensional Heat Transfer in Longitudinal Triangular Fins. Mathematical Problems in Engineering, 2013, 2013, 1-9. | 0.6 | 4 |
| 27 | Numerical Investigation of the Steady State of a Driven Thin Film Equation. Journal of Applied Mathematics, 2013, 2013, 1-6. | 0.4 | 2 |
| 28 | Well-balancing and relaxation schemes for the numerical investigation of heat transfer in one dimensional triangular fins. , 2013, , . | | 0 |
| 29 | A comparison of two hybrid methods for applying the time-fractional heat equation to a two dimensional function. AIP Conference Proceedings, 2013, , . | 0.3 | 1 |
| 30 | Peacemanâ€”Rachford ADI scheme for the two dimensional flow of a secondâ€”grade fluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 228-242. | 1.6 | 5 |
| 31 | Unsteady heat transfer through a longitudinal fin: An investigation into the effects of key parameters. , 2012, , . | | 0 |
| 32 | Numerical Simulation of the Frank-Kamenetskii PDE: GPU vs. CPU Computing. , 2012, , . | | 0 |
| 33 | Numerical investigation of the temperature profile in a rectangular longitudinal fin. Nonlinear Analysis: Real World Applications, 2012, 13, 2343-2351. | 0.9 | 16 |
| 34 | STOKES'S FIRST PROBLEM FOR A ROTATING SISO FLUID WITH POROUS SPACE. Journal of Porous Media, 2012, 15, 1079-1091. | 1.0 | 2 |
| 35 | Transient heat transfer in longitudinal fins of various profiles with temperature-dependent thermal conductivity and heat transfer coefficient. Pramana - Journal of Physics, 2011, 77, 519-532. | 0.9 | 26 |
| 36 | An implicit series solution for a boundary value problem modelling a thermal explosion. Mathematical and Computer Modelling, 2011, 53, 249-260. | 2.0 | 21 |

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|----|---|-----|-----------|
| 37 | Steady Thermal Analysis of Two-Dimensional Cylindrical Pin Fin with a Nonconstant Base Temperature. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-17. | 0.6 | 4 |
| 38 | Numerical investigation of the generalized lubrication equation. <i>Applied Mathematics and Computation</i> , 2010, 217, 2631-2638. | 1.4 | 3 |
| 39 | Hopscotch method: The numerical solution of the Frank-Kamenetskii partial differential equation. <i>Applied Mathematics and Computation</i> , 2010, 217, 4065-4075. | 1.4 | 15 |
| 40 | Efficient Boundary Value Problem Solution for a Lane-Emden Equation. <i>Mathematical and Computational Applications</i> , 2010, 15, 613-620. | 0.7 | 6 |
| 41 | FIRST INTEGRALS OF FIN EQUATIONS FOR STRAIGHT FINS. <i>Modern Physics Letters B</i> , 2009, 23, 3659-3666. | 1.0 | 3 |
| 42 | Peaceman-Rachford ADI Scheme for the Two-Dimensional Flow of a Second-Grade Fluid. , 2009, , . | | 0 |
| 43 | First integrals and bifurcations of a Lane-Emden equation of the second kind. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 344, 757-764. | 0.5 | 16 |
| 44 | Instability of invariant boundary conditions of a generalized Lane-Emden equation of the second-kind. <i>Applied Mathematics and Computation</i> , 2008, 198, 621-633. | 1.4 | 10 |
| 45 | Alternate Derivation of the Critical Value of the Frank-Kamenetskii Parameter in Cylindrical Geometry. <i>Journal of Nonlinear Mathematical Physics</i> , 2008, 15, 69. | 0.8 | 9 |
| 46 | STEADY STATE SOLUTIONS FOR A THERMAL EXPLOSION IN A CYLINDRICAL VESSEL. <i>Modern Physics Letters B</i> , 2007, 21, 831-841. | 1.0 | 10 |
| 47 | Approximate implicit solution of a Lane-Emden equation. <i>New Astronomy</i> , 2006, 11, 520-526. | 0.8 | 72 |