Charis Harley

List of Publications by Year
in descending order

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47 papers	322 citations	933447 10 h-index	940533 16 g-index
48 all docs	48 docs citations	48 times ranked	229 citing authors

#	Article	IF	Citations
1	Generalized forms of fractional Euler and Rungeâ€"Kutta methods using non-uniform grid. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 2089-2111.	1.0	7
2	Preface to special issue of selected papers from the 13th International Symposium on Numerical Analysis of Fluid Flow, Heat and Mass Transfer â€" Numerical Fluids 2018. Computers and Mathematics With Applications, 2021, 83, 1-3.	2.7	1
3	Models and muddles in the COVID-19 pandemic. South African Journal of Science, 2021, 117, .	0.7	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.	2.4	2
5	Numerical Convergence Analysis of the Frankâ€"Kamenetskii Equation. Entropy, 2020, 22, 84.	2.2	0
6	Numerical simulations describing inhomogeneous non-unidirectional deformations of an elastic wedge. AIP Conference Proceedings, 2019, , .	0.4	0
7	Inhomogeneous non-unidirectional deformations of an elastic wedge. Quarterly Journal of Mechanics and Applied Mathematics, 2019, 72, 1-23.	1.3	0
8	Reversal of flow of a non-Newtonian fluid in an expanding channel. International Journal of Non-Linear Mechanics, 2018, 101, 44-55.	2.6	13
9	Two-dimensional nonlinear stress and displacement waves for a new class of constitutive equations. Wave Motion, 2018, 77, 156-185.	2.0	3
10	Numerical simulations of early star formation with â€œsoftâ€•equations of state. AIP Conference Proceedings, 2018, , .	0.4	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.	1.0	8
12	Testing of mathematica in the computation of two-phase flow equations. AIP Conference Proceedings, 2018, , .	0.4	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.	4.8	13
14	Heat as a hydraulic tracer for horizontal subsurface flow constructed wetlands. Journal of Water Process Engineering, 2017, 16, 183-192.	5.6	6
15	On the relation of isothermal collape to steady Bondi-accretion. AIP Conference Proceedings, 2017, , .	0.4	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.	3.3	0
17	Nonstandard Finite Difference Method Applied to a Linear Pharmacokinetics Model. Bioengineering, 2017, 4, 40.	3.5	12
18	Heat Transfer in a Porous Radial Fin: Analysis of Numerically Obtained Solutions. Advances in Mathematical Physics, 2017, 2017, 1-20.	0.8	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.	1.5	3
20	Error bounds in approximating the Riemannâ€"Stieltjes integral of <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	2.2	0
21	Two Hybrid Methods for Solving Two-Dimensional Linear Time-Fractional Partial Differential Equations. Abstract and Applied Analysis, 2014, 2014, 1-10.	0.7	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.	2.2	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.	2.7	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.	1.1	1
25	Asymptotic and Dynamical Analyses of Heat Transfer through a Rectangular Longitudinal Fin. Journal of Applied Mathematics, 2013, 2013, 1-8.	0.9	9
26	A Numerical Well-Balanced Scheme for One-Dimensional Heat Transfer in Longitudinal Triangular Fins. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	4
27	Numerical Investigation of the Steady State of a Driven Thin Film Equation. Journal of Applied Mathematics, 2013, 2013, 1-6.	0.9	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, , .	0.4	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.	2.8	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.	1.7	16
34	STOKES'S FIRST PROBLEM FOR A ROTATING SISKO FLUID WITH POROUS SPACE. Journal of Porous Media, 2012, 15, 1079-1091.	1.9	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.	1.8	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. Mathematical Problems in Engineering, 2011, 2011, 1-17.	1.1	4
38	Numerical investigation of the generalized lubrication equation. Applied Mathematics and Computation, 2010, 217, 2631-2638.	2.2	3
39	Hopscotch method: The numerical solution of the Frank-Kamenetskii partial differential equation. Applied Mathematics and Computation, 2010, 217, 4065-4075.	2.2	15
40	Efficient Boundary Value Problem Solution for a Lane-Emden Equation. Mathematical and Computational Applications, 2010, 15, 613-620.	1.3	6
41	FIRST INTEGRALS OF FIN EQUATIONS FOR STRAIGHT FINS. Modern Physics Letters B, 2009, 23, 3659-3666.	1.9	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 Laneâ€"Emden equation of the second kind. Journal of Mathematical Analysis and Applications, 2008, 344, 757-764.	1.0	16
44	Instability of invariant boundary conditions of a generalized Laneâ€"Emden equation of the second-kind. Applied Mathematics and Computation, 2008, 198, 621-633.	2.2	10
45	Alternate Derivation of the Critical Value of the Frank-Kamenetskii Parameter in Cylindrical Geometry. Journal of Nonlinear Mathematical Physics, 2008, 15, 69.	1.3	9
46	STEADY STATE SOLUTIONS FOR A THERMAL EXPLOSION IN A CYLINDRICAL VESSEL. Modern Physics Letters B, 2007, 21, 831-841.	1.9	10
47	Approximate implicit solution of a Lane-Emden equation. New Astronomy, 2006, 11, 520-526.	1.8	72