

Zurni Omar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

809
citations

17
h-index

27
g-index

54
ext. papers

967
ext. citations

2.6
avg, IF

5.18
L-index

#	Paper	IF	Citations
53	Nonlinear solution of the reaction-diffusion equation using a two-step third-fourth-derivative block method. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2021 , 22, 111-118	1.8	
52	Solving first and second order delay differential equations using new operational matrices of Said-Ball polynomials. <i>Journal of Interdisciplinary Mathematics</i> , 2021 , 24, 921-930	1.2	
51	Magnetohydrodynamic flow of CuFe ₃ O ₄ /H ₂ O hybrid nanofluid with effect of viscous dissipation: dual similarity solutions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 915-927	4.1	32
50	Investigation of a hyperbolic annular fin with temperature dependent thermal conductivity by two step third derivative block method (TSTDBM). <i>Microsystem Technologies</i> , 2021 , 27, 2063-2074	1.7	4
49	On a new block method for an MHD nanofluid flow with an exponentially decaying internal heat generation. <i>International Journal for Numerical Methods in Fluids</i> , 2021 , 93, 1816-1824	1.9	1
48	Darcy-Forchheimer porous medium effect on rotating hybrid nanofluid on a linear shrinking/stretching sheet. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	4
47	Duality and stability of MHD Darcy-Forchheimer porous medium flow of rotating nanofluid on a linear shrinking/stretching sheet: Buongiorno model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	4
46	Dual Solutions and Stability Analysis of a Hybrid Nanofluid over a Stretching/Shrinking Sheet Executing MHD Flow. <i>Symmetry</i> , 2020 , 12, 276	2.7	40
45	Effects of Stefan Blowing and Slip Conditions on Unsteady MHD Casson Nanofluid Flow Over an Unsteady Shrinking Sheet: Dual Solutions. <i>Symmetry</i> , 2020 , 12, 487	2.7	33
44	Stability Analysis and Dual Solutions of Micropolar Nanofluid over the Inclined Stretching/Shrinking Surface with Convective Boundary Condition. <i>Symmetry</i> , 2020 , 12, 74	2.7	25
43	Magnetohydrodynamic (MHD) Flow of Micropolar Fluid with Effects of Viscous Dissipation and Joule Heating Over an Exponential Shrinking Sheet: Triple Solutions and Stability Analysis. <i>Symmetry</i> , 2020 , 12, 142	2.7	28
42	Triple solutions of micropolar nanofluid in the presence of radiation over an exponentially preambled shrinking surface: Convective boundary condition. <i>Heat Transfer</i> , 2020 , 49, 3075-3093	3.1	5
41	Dual Branches of MHD Three-Dimensional Rotating Flow of Hybrid Nanofluid on Nonlinear Shrinking Sheet. <i>Computers, Materials and Continua</i> , 2020 , 66, 127-139	3.9	6
40	Magnetized Flow of Cu + Al ₂ O ₃ + H ₂ O Hybrid Nanofluid in Porous Medium: Analysis of Duality and Stability. <i>Symmetry</i> , 2020 , 12, 1513	2.7	17
39	Dual similarity solutions of MHD stagnation point flow of Casson fluid with effect of thermal radiation and viscous dissipation: stability analysis. <i>Scientific Reports</i> , 2020 , 10, 15405	4.9	24
38	Linear stability analysis of MHD flow of micropolar fluid with thermal radiation and convective boundary condition: Exact solution. <i>Heat Transfer - Asian Research</i> , 2020 , 49, 461-476	2.8	14
37	Stability analysis and multiple solution of CuAl ₂ O ₃ /H ₂ O nanofluid contains hybrid nanomaterials over a shrinking surface in the presence of viscous dissipation. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 421-432	5.5	69

36	Rotating 3D Flow of Hybrid Nanofluid on Exponentially Shrinking Sheet: Symmetrical Solution and Duality. <i>Symmetry</i> , 2020 , 12, 1637	2.7	9
35	Stability Analysis of the Magnetized Casson Nanofluid Propagating through an Exponentially Shrinking/Stretching Plate: Dual Solutions. <i>Symmetry</i> , 2020 , 12, 1162	2.7	5
34	Convective Effect on Magnetohydrodynamic (MHD) Stagnation Point Flow of Casson Fluid over a Vertical Exponentially Stretching/Shrinking Surface: Triple Solutions. <i>Symmetry</i> , 2020 , 12, 1238	2.7	12
33	Triple Solutions and Stability Analysis of Micropolar Fluid Flow on an Exponentially Shrinking Surface. <i>Crystals</i> , 2020 , 10, 283	2.3	8
32	Triple Local Similarity Solutions of Darcy-Forchheimer Magnetohydrodynamic (MHD) Flow of Micropolar Nanofluid Over an Exponential Shrinking Surface: Stability Analysis. <i>Coatings</i> , 2019 , 9, 527	2.9	26
31	Direct solution of initial and boundary value problems of third order ODEs using maximal-order fourth-derivative block method 2019 ,		1
30	Numerical Investigation of Multiple Solutions for Caputo Fractional-Order-Two Dimensional Magnetohydrodynamic Unsteady Flow of Generalized Viscous Fluid over a Shrinking Sheet Using the Adams-Type Predictor-Corrector Method. <i>Coatings</i> , 2019 , 9, 548	2.9	10
29	Heat transfer study of convective fin with temperature-dependent internal heat generation by hybrid block method. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 1225-1244	2.8	51
28	Multiple solutions of Cu-C6H9NaO7 and Ag-C6H9NaO7 nanofluids flow over nonlinear shrinking surface. <i>Journal of Central South University</i> , 2019 , 26, 1283-1293	2.1	37
27	One-Step Third-Derivative Block Method with Two-Hybrid Points for Solving Non-linear Dirichlet Second Order Boundary Value Problems 2019 , 135-146		
26	Analysis of dual solution for MHD flow of Williamson fluid with slippage. <i>Heliyon</i> , 2019 , 5, e01345	3.6	36
25	Stability Analysis of Darcy-Forchheimer Flow of Casson Type Nanofluid Over an Exponential Sheet: Investigation of Critical Points. <i>Symmetry</i> , 2019 , 11, 412	2.7	49
24	Steady incompressible magnetohydrodynamics Casson boundary layer flow past a permeable vertical and exponentially shrinking sheet: A stability analysis. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 3538-3556	2.8	15
23	Enactment of implicit two-step Obrechhoff-type block method on unsteady sedimentation analysis of spherical particles in Newtonian fluid media. <i>Journal of Molecular Liquids</i> , 2019 , 293, 111416	6	13
22	Quadruple solutions of mixed convection flow of magnetohydrodynamic nanofluid over exponentially vertical shrinking and stretching surfaces: Stability analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 182, 105044	6.9	27
21	Mathematical analysis of magnetohydrodynamic (MHD) flow of micropolar nanofluid under buoyancy effects past a vertical shrinking surface: dual solutions. <i>Heliyon</i> , 2019 , 5, e02432	3.6	20
20	Effect of Viscous Dissipation in Heat Transfer of MHD Flow of Micropolar Fluid Partial Slip Conditions: Dual Solutions and Stability Analysis. <i>Energies</i> , 2019 , 12, 4617	3.1	19
19	A note on some solutions of micropolar fluid in a channel with permeable walls. <i>Multidiscipline Modeling in Materials and Structures</i> , 2018 , 14, 91-101	2.2	1

18	The impact of 2008 credit crisis on currency stability structure. <i>International Journal of Productivity and Quality Management</i> , 2018 , 23, 128	0.3	
17	New Generalized Algorithm for Developing k-Step Higher Derivative Block Methods for Solving Higher Order Ordinary Differential Equations. <i>Journal of Mathematical and Fundamental Sciences</i> , 2018 , 50, 40-58	1.7	3
16	Solving Nonlinear Fourth-Order Boundary Value Problems Using a Numerical Approach: (m+1)th-Step Block Method. <i>International Journal of Differential Equations</i> , 2017 , 2017, 1-9	0.8	2
15	Generalized Hybrid One-Step Block Method Involving Fifth Derivative for Solving Fourth-Order Ordinary Differential Equation Directly. <i>Journal of Applied Mathematics</i> , 2017 , 2017, 1-14	1.1	
14	Numerical Solution of First Order Initial Value Problems Using a Self-Starting Implicit Two-Step Obrechhoff-Type Block Method. <i>Journal of Mathematics and Statistics</i> , 2016 , 12, 127-134	0.3	6
13	New Seven-Step Numerical Method for Direct Solution of Fourth Order Ordinary Differential Equations. <i>Journal of Mathematical and Fundamental Sciences</i> , 2016 , 48, 94-105	1.7	2
12	An Order Four Block Method with Three Generalized Off Step Points for Solving First Order Ordinary Differential Equations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016 , 13, 7574-7580	0.3	
11	Validation of Global Financial Crisis on Bursa Malaysia Stocks Market Companies via Covariance Structure. <i>American Journal of Applied Sciences</i> , 2016 , 13, 1091-1095	0.8	4
10	Multiple Solutions of Mixed Convective MHD Casson Fluid Flow in a Channel. <i>Journal of Applied Mathematics</i> , 2016 , 2016, 1-10	1.1	14
9	A Note on Some Solutions of Copper-Water (Cu-Water) Nanofluids in a Channel with Slowly Expanding or Contracting Walls with Heat Transfer. <i>Mathematical and Computational Applications</i> , 2016 , 21, 24	1	11
8	Numerical Investigation of Copper-Water (Cu-Water) Nanofluid with Different Shapes of Nanoparticles in a Channel with Stretching Wall: Slip Effects. <i>Mathematical and Computational Applications</i> , 2016 , 21, 43	1	13
7	Direct Solution of Second-Order Ordinary Differential Equation Using a Single-Step Hybrid Block Method of Order Five. <i>Mathematical and Computational Applications</i> , 2016 , 21, 12	1	1
6	Heat and mass transfer analysis of MHD nanofluid flow in a rotating channel with slip effects. <i>Journal of Molecular Liquids</i> , 2016 , 219, 703-708	6	32
5	MHD flow and heat transfer of Cu-water nanofluid in a semi porous channel with stretching walls. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 336-340	4.9	46
4	Rheology of micropolar fluid in a channel with changing walls: Investigation of multiple solutions. <i>Journal of Molecular Liquids</i> , 2016 , 223, 890-902	6	17
3	Parallel two-Point Explicit Block method for solving high-order Ordinary Differential Equations. <i>International Journal of Simulation and Process Modelling</i> , 2006 , 2, 227	0.4	5
2	Unsteady Flow of a Casson Fluid between Two Orthogonally Moving Porous Disks: A Numerical Investigation. <i>Communications in Numerical Analysis</i> , 2017 , 109-124	0	4
1	Dynamics of water conveying copper and alumina nanomaterials when viscous dissipation and thermal radiation are significant: Single-phase model with multiple solutions. <i>Mathematical Methods in the Applied Sciences</i> ,	2.3	4

