

Zurni Omar

List of Publications by Year in descending order

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papers

1,167
citations

394421

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docs citations

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678
citing authors

#	ARTICLE	IF	CITATIONS
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> , 2023, 46, 11603-11617.	2.3	12
2	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> , 2022, 32, 1517-1539.	2.8	8
3	Magnetohydrodynamic flow of Cu-Fe 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.	3.6	57
4	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.	2.0	7
5	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.	1.6	2
6	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, 31, 3621-3641.	2.8	8
7	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.	0.7	0
8	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.	1.0	0
9	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	19
10	Stability analysis and multiple solution of Cu-Al 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.	5.8	92
11	Rotating 3D Flow of Hybrid Nanofluid on Exponentially Shrinking Sheet: Symmetrical Solution and Duality. <i>Symmetry</i> , 2020, 12, 1637.	2.2	15
12	Stability Analysis of the Magnetized Casson Nanofluid Propagating through an Exponentially Shrinking/Stretching Plate: Dual Solutions. <i>Symmetry</i> , 2020, 12, 1162.	2.2	8
13	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.	2.2	19
14	Dual Solutions and Stability Analysis of a Hybrid Nanofluid over a Stretching/Shrinking Sheet Executing MHD Flow. <i>Symmetry</i> , 2020, 12, 276.	2.2	65
15	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.	2.2	52
16	Stability Analysis and Dual Solutions of Micropolar Nanofluid over the Inclined Stretching/Shrinking Surface with Convective Boundary Condition. <i>Symmetry</i> , 2020, 12, 74.	2.2	37
17	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.	2.2	50
18	Triple solutions of micropolar nanofluid in the presence of radiation over an exponentially preample shrinking surface: Convective boundary condition. <i>Heat Transfer</i> , 2020, 49, 3075-3093.	3.0	7

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19	Triple Solutions and Stability Analysis of Micropolar Fluid Flow on an Exponentially Shrinking Surface. Crystals, 2020, 10, 283.	2.2	10
20	Dual similarity solutions of MHD stagnation point flow of Casson fluid with effect of thermal radiation and viscous dissipation: stability analysis. Scientific Reports, 2020, 10, 15405.	3.3	39
21	Dual Branches of MHD Three-Dimensional Rotating Flow of Hybrid Nanofluid on Nonlinear Shrinking Sheet. Computers, Materials and Continua, 2020, 66, 127-139.	1.9	12
22	Magnetized Flow of Cu + Al ₂ O ₃ + H ₂ O Hybrid Nanofluid in Porous Medium: Analysis of Duality and Stability. Symmetry, 2020, 12, 1513.	2.2	26
23	Steady incompressible magnetohydrodynamics Casson boundary layer flow past a permeable vertical and exponentially shrinking sheet: A stability analysis. Heat Transfer - Asian Research, 2019, 48, 3538-3556.	2.8	19
24	Enactment of implicit two-step Obrechhoff-type block method on unsteady sedimentation analysis of spherical particles in Newtonian fluid media. Journal of Molecular Liquids, 2019, 293, 111416.	4.9	13
25	Quadruple solutions of mixed convection flow of magnetohydrodynamic nanofluid over exponentially vertical shrinking and stretching surfaces: Stability analysis. Computer Methods and Programs in Biomedicine, 2019, 182, 105044.	4.7	41
26	Mathematical analysis of magnetohydrodynamic (MHD) flow of micropolar nanofluid under buoyancy effects past a vertical shrinking surface: dual solutions. Heliyon, 2019, 5, e02432.	3.2	33
27	Triple Local Similarity Solutions of Darcy-Forchheimer Magnetohydrodynamic (MHD) Flow of Micropolar Nanofluid Over an Exponential Shrinking Surface: Stability Analysis. Coatings, 2019, 9, 527.	2.6	32
28	Direct solution of initial and boundary value problems of third order ODEs using maximal-order fourth-derivative block method. AIP Conference Proceedings, 2019, , .	0.4	2
29	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. Coatings, 2019, 9, 548.	2.6	14
30	Heat transfer study of convective fin with temperatureâ€¢dependent internal heat generation by hybrid block method. Heat Transfer - Asian Research, 2019, 48, 1225-1244.	2.8	64
31	Multiple solutions of Cu-C ₆ H ₉ NaO ₇ and Ag-C ₆ H ₉ NaO ₇ nanofluids flow over nonlinear shrinking surface. Journal of Central South University, 2019, 26, 1283-1293.	3.0	44
32	One-Step Third-Derivative Block Method with Two-Hybrid Points for Solving Non-linear Dirichlet Second Order Boundary Value Problems. , 2019, , 135-146.		0
33	Analysis of dual solution for MHD flow of Williamson fluid with slippage. Heliyon, 2019, 5, e01345.	3.2	54
34	Stability Analysis of Darcy-Forchheimer Flow of Casson Type Nanofluid Over an Exponential Sheet: Investigation of Critical Points. Symmetry, 2019, 11, 412.	2.2	57
35	Effect of Viscous Dissipation in Heat Transfer of MHD Flow of Micropolar Fluid Partial Slip Conditions: Dual Solutions and Stability Analysis. Energies, 2019, 12, 4617.	3.1	25
36	A note on some solutions of micropolar fluid in a channel with permeable walls. Multidiscipline Modeling in Materials and Structures, 2018, 14, 91-101.	1.3	1

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37	The impact of 2008 credit crisis on currency stability structure. International Journal of Productivity and Quality Management, 2018, 23, 128.	0.2	0
38	New Generalized Algorithm for Developing k-Step Higher Derivative Block Methods for Solving Higher Order Ordinary Differential Equations. Journal of Mathematical and Fundamental Sciences, 2018, 50, 40-58.	0.5	3
39	Generalized Hybrid One-Step Block Method Involving Fifth Derivative for Solving Fourth-Order Ordinary Differential Equation Directly. Journal of Applied Mathematics, 2017, 2017, 1-14.	0.9	0
40	Solving Nonlinear Fourth-Order Boundary Value Problems Using a Numerical Approach: $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle m \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (for$	1.0	10
41	Method. International Journal of Differential Equations, 2017, 2017, 1-9. Numerical Solution of First Order Initial Value Problems Using a Self-Starting Implicit Two-Step Obrechhoff-Type Block Method. Journal of Mathematics and Statistics, 2016, 12, 127-134.	0.2	10
42	Validation of Global Financial Crisis on Bursa Malaysia Stocks Market Companies via Covariance Structure. American Journal of Applied Sciences, 2016, 13, 1091-1095.	0.2	4
43	Multiple Solutions of Mixed Convective MHD Casson Fluid Flow in a Channel. Journal of Applied Mathematics, 2016, 2016, 1-10.	0.9	21
44	A Note on Some Solutions of Copper-Water (Cu-Water) Nanofluids in a Channel with Slowly Expanding or Contracting Walls with Heat Transfer. Mathematical and Computational Applications, 2016, 21, 24.	1.3	14
45	Numerical Investigation of Copper-Water (Cu-Water) Nanofluid with Different Shapes of Nanoparticles in a Channel with Stretching Wall: Slip Effects. Mathematical and Computational Applications, 2016, 21, 43.	1.3	14
46	Direct Solution of Second-Order Ordinary Differential Equation Using a Single-Step Hybrid Block Method of Order Five. Mathematical and Computational Applications, 2016, 21, 12.	1.3	5
47	Heat and mass transfer analysis of MHD nanofluid flow in a rotating channel with slip effects. Journal of Molecular Liquids, 2016, 219, 703-708.	4.9	46
48	MHD flow and heat transfer of Cu-water nanofluid in a semi porous channel with stretching walls. International Journal of Heat and Mass Transfer, 2016, 103, 336-340.	4.8	61
49	Rheology of micropolar fluid in a channel with changing walls: Investigation of multiple solutions. Journal of Molecular Liquids, 2016, 223, 890-902.	4.9	25
50	New Seven-Step Numerical Method for Direct Solution of Fourth Order Ordinary Differential Equations. Journal of Mathematical and Fundamental Sciences, 2016, 48, 94-105.	0.5	5
51	An Order Four Block Method with Three Generalized Off Step Points for Solving First Order Ordinary Differential Equations. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7574-7580.	0.4	0
52	Complete graph K4 decomposition into circuits of length 4. , 2014, , .		0
53	Parallel two-Point Explicit Block method for solving high-order Ordinary Differential Equations. International Journal of Simulation and Process Modelling, 2006, 2, 227.	0.2	7
54	Unsteady Flow of a Casson Fluid between Two Orthogonally Moving Porous Disks: A Numerical Investigation. Communications in Numerical Analysis, 0, 2017, 109-124.	0.1	6