Zurni Omar

List of Publications by Year
in descending order

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54 papers	1,167 citations	394421 19 h-index	414414 32 g-index
54 all docs	54 docs citations	54 times ranked	678 citing authors

#	Article	IF	Citations
1	Stability analysis and multiple solution of Cuâ€“Al2O3/H2O nanofluid contains hybrid nanomaterials over a shrinking surface in the presence of viscous dissipation. Journal of Materials Research and Technology, 2020, 9, 421-432.	5.8	92
2	Dual Solutions and Stability Analysis of a Hybrid Nanofluid over a Stretching/Shrinking Sheet Executing MHD Flow. Symmetry, 2020, 12, 276.	2.2	65
3	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
4	MHD flow and heat transfer of Cuâ€“water nanofluid in a semi porous channel with stretching walls. International Journal of Heat and Mass Transfer, 2016, 103, 336-340.	4.8	61
5	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
6	Magnetohydrodynamic flow of Cuâ€“Fe3O4/H2O hybrid nanofluid with effect of viscous dissipation: dual similarity solutions. Journal of Thermal Analysis and Calorimetry, 2021, 143, 915-927.	3.6	57
7	Analysis of dual solution for MHD flow of Williamson fluid with slippage. Heliyon, 2019, 5, e01345.	3.2	54
8	Effects of Stefan Blowing and Slip Conditions on Unsteady MHD Casson Nanofluid Flow Over an Unsteady Shrinking Sheet: Dual Solutions. Symmetry, 2020, 12, 487.	2.2	52
9	Magnetohydrodynamic (MHD) Flow of Micropolar Fluid with Effects of Viscous Dissipation and Joule Heating Over an Exponential Shrinking Sheet: Triple Solutions and Stability Analysis. Symmetry, 2020, 12, 142.	2.2	50
10	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
11	Multiple solutions of Cu-C6H9NaO7 and Ag-C6H9NaO7 nanofluids flow over nonlinear shrinking surface. Journal of Central South University, 2019, 26, 1283-1293.	3.0	44
12	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
13	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
14	Stability Analysis and Dual Solutions of Micropolar Nanofluid over the Inclined Stretching/Shrinking Surface with Convective Boundary Condition. Symmetry, 2020, 12, 74.	2.2	37
15	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
16	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
17	Magnetized Flow of Cu + Al2O3 + H2O Hybrid Nanofluid in Porous Medium: Analysis of Duality and Stability. Symmetry, 2020, 12, 1513.	2.2	26
18	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

#	Article	IF	Citations
19	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
20	Multiple Solutions of Mixed Convective MHD Casson Fluid Flow in a Channel. Journal of Applied Mathematics, 2016, 2016, 1-10.	0.9	21
21	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
22	Linear stability analysis of MHD flow of micropolar fluid with thermal radiation and convective boundary condition: Exact solution. Heat Transfer - Asian Research, 2020, 49, 461-476.	2.8	19
23	Convective Effect on Magnetohydrodynamic (MHD) Stagnation Point Flow of Casson Fluid over a Vertical Exponentially Stretching/Shrinking Surface: Triple Solutions. Symmetry, 2020, 12, 1238.	2.2	19
24	Rotating 3D Flow of Hybrid Nanofluid on Exponentially Shrinking Sheet: Symmetrical Solution and Duality. Symmetry, 2020, 12, 1637.	2.2	15
25	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
26	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
27	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
28	Enactment of implicit two-step Obrechkoff-type block method on unsteady sedimentation analysis of spherical particles in Newtonian fluid media. Journal of Molecular Liquids, 2019, 293, 111416.	4.9	13
29	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
30	Dynamics of water conveying copper and alumina nanomaterials when viscous dissipation and thermal radiation are significant: Singleâ€phase model with multiple solutions. Mathematical Methods in the Applied Sciences, 2023, 46, 11603-11617.	2.3	12
31	Numerical Solution of First Order Initial Value Problems Using a Self-Starting Implicit Two-Step Obrechkoff-Type Block Method. Journal of Mathematics and Statistics, 2016, 12, 127-134.	0.2	10
32	Triple Solutions and Stability Analysis of Micropolar Fluid Flow on an Exponentially Shrinking Surface. Crystals, 2020, 10, 283.	2.2	10
33	Stability Analysis of the Magnetized Casson Nanofluid Propagating through an Exponentially Shrinking/Stretching Plate: Dual Solutions. Symmetry, 2020, 12, 1162.	2.2	8
34	Darcy-Forchheimer porous medium effect on rotating hybrid nanofluid on a linear shrinking/stretching sheet. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 3621-3641.	2.8	8
35	Duality and stability of MHD Darcyâ€“Forchheimer porous medium flow of rotating nanofluid on a linear shrinking/stretching sheet: Buongiorno model. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 1517-1539.	2.8	8
36	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

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37	Triple solutions of micropolar nanofluid in the presence of radiation over an exponentially preamble shrinking surface: Convective boundary condition. Heat Transfer, 2020, 49, 3075-3093.	3.0	7
38	Investigation of a hyperbolic annular fin with temperature dependent thermal conductivity by two step third derivative block method (TSTDBM). Microsystem Technologies, 2021, 27, 2063-2074.	2.0	7
39	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
40	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
41	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
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	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
44	Solving Nonlinear Fourth-Order Boundary Value Problems Using a Numerical Approach: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mo stretchy="false">(</mml:mo><mml:mi>m</mml:mi><mml:mo>+</mml:mo><mml:mn) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (for Method. International Journal of Differential Equations, 2017, 2017, 1-9.	0.8	3
45	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
46	On a new block method for an MHD nanofluid flow with an exponentially decaying internal heat generation. International Journal for Numerical Methods in Fluids, 2021, 93, 1816-1824.	1.6	2
47	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
48	Complete graph K4 decomposition into circuits of length 4. , 2014, , .		0
49	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
50	The impact of 2008 credit crisis on currency stability structure. International Journal of Productivity and Quality Management, 2018, 23, 128.	0.2	0
51	One-Step Third-Derivative Block Method with Two-Hybrid Points for Solving Non-linear Dirichlet Second Order Boundary Value Problems. , 2019, , 135-146.		0
52	Solving first and second order delay differential equations using new operational matrices of Said-Ball polynomials. Journal of Interdisciplinary Mathematics, 2021, 24, 921-930.	0.7	0
53	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
54	Nonlinear solution of the reactionâ€“diffusion equation using a two-step thirdâ€“fourth-derivative block method. International Journal of Nonlinear Sciences and Numerical Simulation, 2021, 22, 111-118.	1.0	0