

# Zurni Omar

## List of Publications by Year in descending order

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54  
papers

1,167  
citations

393982

19  
h-index

414034

32  
g-index

54  
all docs

54  
docs citations

54  
times ranked

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.	1.2	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.	1.6	8
3	Magnetohydrodynamic flow of Cu-Fe <sub>3</sub> O <sub>4</sub> /H <sub>2</sub> O hybrid nanofluid with effect of viscous dissipation: dual similarity solutions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 915-927.	2.0	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.	1.2	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.	0.9	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.	1.6	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.	0.4	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.	0.4	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 <sub>2</sub> O <sub>3</sub> /H <sub>2</sub> 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.	2.6	92
11	Rotating 3D Flow of Hybrid Nanofluid on Exponentially Shrinking Sheet: Symmetrical Solution and Duality. <i>Symmetry</i> , 2020, 12, 1637.	1.1	15
12	Stability Analysis of the Magnetized Casson Nanofluid Propagating through an Exponentially Shrinking/Stretching Plate: Dual Solutions. <i>Symmetry</i> , 2020, 12, 1162.	1.1	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.	1.1	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.	1.1	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.	1.1	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.	1.1	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.	1.1	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.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Triple Solutions and Stability Analysis of Micropolar Fluid Flow on an Exponentially Shrinking Surface. <i>Crystals</i> , 2020, 10, 283.	1.0	10
20	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.	1.6	39
21	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.	1.5	12
22	Magnetized Flow of Cu + Al <sub>2</sub> O <sub>3</sub> + H <sub>2</sub> O Hybrid Nanofluid in Porous Medium: Analysis of Duality and Stability. <i>Symmetry</i> , 2020, 12, 1513.	1.1	26
23	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	19
24	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.	2.3	13
25	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.	2.6	41
26	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.	1.4	33
27	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.	1.2	32
28	Direct solution of initial and boundary value problems of third order ODEs using maximal-order fourth-derivative block method. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	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. <i>Coatings</i> , 2019, 9, 548.	1.2	14
30	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	64
31	Multiple solutions of Cu-C <sub>6</sub> H <sub>9</sub> NaO <sub>7</sub> and Ag-C <sub>6</sub> H <sub>9</sub> NaO <sub>7</sub> nanofluids flow over nonlinear shrinking surface. <i>Journal of Central South University</i> , 2019, 26, 1283-1293.	1.2	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. <i>Heliyon</i> , 2019, 5, e01345.	1.4	54
34	Stability Analysis of Darcy-Forchheimer Flow of Casson Type Nanofluid Over an Exponential Sheet: Investigation of Critical Points. <i>Symmetry</i> , 2019, 11, 412.	1.1	57
35	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.	1.6	25
36	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.	0.6	1

