Umer Farooq

List of Publications by Year in descending order

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54	1,454	304368	360668
papers	citations	22 h-index	35 g-index

55	55	55	672
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of the HAM-based Mathematica package BVPh 2.0 on MHD Falknerâ€“Skan flow of nano-fluid. Computers and Fluids, 2015, 111, 69-75.	1.3	142
2	Heat and mass transfer of two-layer flows of third-grade nano-fluids in a vertical channel. Applied Mathematics and Computation, 2014, 242, 528-540.	1.4	90
3	MHD flow of Maxwell fluid with nanomaterials due to an exponentially stretching surface. Scientific Reports, 2019, 9, 7312.	1.6	80
4	Buoyancy effects on the radiative magneto Micropolar nanofluid flow with double stratification, activation energy and binary chemical reaction. Scientific Reports, 2017, 7, 12901.	1.6	74
5	Transpiration and Viscous Dissipation Effects on Entropy Generation in Hybrid Nanofluid Flow over a Nonlinear Radially Stretching Disk. Entropy, 2018, 20, 668.	1.1	74
6	Mixed convective flow of Maxwell nanofluid past a porous vertical stretched surface â€“ An optimal solution. Results in Physics, 2016, 6, 1072-1079.	2.0	60
7	Modeling and non-similar analysis for Darcy-Forchheimer-Brinkman model of Casson fluid in a porous media. International Communications in Heat and Mass Transfer, 2020, 119, 104955.	2.9	54
8	Upshot of binary chemical reaction and activation energy on carbon nanotubes with Cattaneo-Christov heat flux and buoyancy effects. Physics of Fluids, 2017, 29, .	1.6	50
9	Nonlinear radiation effect on MHD Carreau nanofluid flow over a radially stretching surface with zero mass flux at the surface. Scientific Reports, 2018, 8, 3709.	1.6	48
10	Soliton solutions of the generalised third-order nonlinear SchrÃ¶dinger equation by two mathematical methods and their stability. Pramana - Journal of Physics, 2019, 93, 1.	0.9	45
11	A numerical treatment of radiative nanofluid 3D flow containing gyrotactic microorganism with anisotropic slip, binary chemical reaction and activation energy. Scientific Reports, 2017, 7, 17008.	1.6	43
12	Non-similar mixed convection analysis for magnetic flow of second-grade nanofluid over a vertically stretching sheet. Communications in Theoretical Physics, 2021, 73, 065801.	1.1	41
13	Nonsimilar convective thermal transport analysis of EMHD stagnation Casson nanofluid flow subjected to particle shape factor and thermal radiations. International Communications in Heat and Mass Transfer, 2022, 137, 106230.	2.9	39
14	Series solutions of non-similarity boundary layer flows of nano-fluids over stretching surfaces. Numerical Algorithms, 2015, 70, 43-59.	1.1	38
15	Impact of non-similar modeling on Darcy-Forchheimer-Brinkman model for forced convection of Casson nano-fluid in non-Darcy porous media. International Communications in Heat and Mass Transfer, 2021, 125, 105312.	2.9	38
16	A numerical treatment of MHD radiative flow of Micropolar nanofluid with homogeneous-heterogeneous reactions past a nonlinear stretched surface. Scientific Reports, 2018, 8, 12431.	1.6	36
17	Mixed convective radiative flow of second grade nanofluid with convective boundary conditions: An optimal solution. Results in Physics, 2016, 6, 796-804.	2.0	33
18	Impact of non-similar modeling for forced convection analysis of nano-fluid flow over stretching sheet with chemical reaction and heat generation. AEJ - Alexandria Engineering Journal, 2022, 61, 4253-4261.	3.4	32

#	Article	IF	Citations
19	Impact of generalized Fourierâ€™s and Fickâ€™s laws on MHD 3D second grade nanofluid flow with variable thermal conductivity and convective heat and mass conditions. Physics of Fluids, 2017, 29, 093102.	1.6	30
20	Computational analysis of three layer fluid model including a nanomaterial layer. International Journal of Heat and Mass Transfer, 2018, 122, 222-228.	2.5	30
21	A Numerical Investigation of 3D MHD Rotating Flow with Binary Chemical Reaction, Activation Energy and Non-Fourier Heat Flux. Communications in Theoretical Physics, 2018, 70, 089.	1.1	30
22	Nonlinear Heat Transfer in a Two-Layer Flow With Nanofluids by OHAM. Journal of Heat Transfer, 2014, 136, .	1.2	25
23	ELZAKI PROJECTED DIFFERENTIAL TRANSFORM METHOD FOR FRACTIONAL ORDER SYSTEM OF LINEAR AND NONLINEAR FRACTIONAL PARTIAL DIFFERENTIAL EQUATION. Fractals, 2018, 26, 1850041.	1.8	24
24	Entropy Analysis of 3D Non-Newtonian MHD Nanofluid Flow with Nonlinear Thermal Radiation Past over Exponential Stretched Surface. Entropy, 2018, 20, 930.	1.1	24
25	Aspects of entropy generation for the non-similar three-dimensional bioconvection flow of nanofluids. AIP Advances, 2020, 10, .	0.6	21
26	On three-dimensional MHD Oldroyd-B fluid flow with nonlinear thermal radiation and homogeneousâ€“heterogeneous reaction. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	20
27	Non-similar forced convection analysis of Oldroyd-B fluid flow over an exponentially stretching surface. Advances in Mechanical Engineering, 2021, 13, 168781402110346.	0.8	18
28	Upshot of Chemical Species and Nonlinear Thermal Radiation on Oldroyd-B Nanofluid Flow Past a Bi-directional Stretched Surface with Heat Generation/Absorption in a Porous Media. Communications in Theoretical Physics, 2018, 70, 071.	1.1	17
29	Non-Similar Solution for Magnetized Flow of Maxwell Nanofluid over an Exponentially Stretching Surface. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	15
30	Nonsimilar Modeling and Numerical Simulations of Electromagnetic Radiative Flow of Nanofluid with Entropy Generation. Mathematical Problems in Engineering, 2022, 2022, 1-20.	0.6	13
31	NUMERICAL INVESTIGATION OF FRACTIONAL HIV MODEL USING ELZAKI PROJECTED DIFFERENTIAL TRANSFORM METHOD. Fractals, 2018, 26, 1850062.	1.8	12
32	Computational Analysis for Mixed Convective Flows of Viscous Fluids With Nanoparticles. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	12
33	Non-similar aspects of heat generation in bioconvection from flat surface subjected to chemically reactive stagnation point flow of Oldroyd-B fluid. AEJ - Alexandria Engineering Journal, 2022, 61, 5397-5411.	3.4	12
34	Investigation of Entropy in Two-Dimensional Peristaltic Flow with Temperature Dependent Viscosity, Thermal and Electrical Conductivity. Entropy, 2020, 22, 200.	1.1	11
35	Modeling and numerical computation of nonsimilar forced convective flow of viscous material towards an exponential surface. International Journal of Modern Physics B, 2021, 35, 2150118.	1.0	11
36	Significance of radiative magnetohydrodynamic flow of suspended PEG based ZrO₂ and MgO₂ within a conical gap. Waves in Random and Complex Media, 0, , 1-19.	1.6	11

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37	Entropy Generation in a Dissipative Nanofluid Flow under the Influence of Magnetic Dissipation and Transpiration. Energies, 2020, 13, 5506.	1.6	10
38	Influence of slip velocity on the flow of viscous fluid through a porous medium in a permeable tube with a variable bulk flow rate. Results in Physics, 2018, 11, 861-868.	2.0	9
39	Significance of non-similar modeling in the entropy analysis of chemically reactive magnetized flow of nanofluid subjected to thermal radiations and melting heat condition. AIP Advances, 2021, 11, .	0.6	8
40	Slip flow through a non-uniform channel under the influence of transverse magnetic field. Scientific Reports, 2018, 8, 13137.	1.6	7
41	Mechanical strength of wheat grain varieties influenced by moisture content and loading rate. International Journal of Agricultural and Biological Engineering, 2018, 11, 35-41.	0.3	7
42	Numerical analysis of entropy generation in the stagnation point flow of Oldroyd-B nanofluid. Waves in Random and Complex Media, 0, , 1-17.	1.6	7
43	Free Convection Nanofluid Flow in the Stagnation-Point Region of a Three-Dimensional Body. Scientific World Journal, The, 2014, 2014, 1-14.	0.8	6
44	Significance of Nonsimilar Numerical Simulations in Forced Convection from Stretching Cylinder Subjected to External Magnetized Flow of Sisko Fluid. Journal of Mathematics, 2021, 2021, 1-11.	0.5	6
45	Analysis of Unsteady Flow and Heat Transfer of Nanofluid Using Blasiusâ€“Rayleighâ€“Stokes Variable. Coatings, 2019, 9, 211.	1.2	5
46	Flow of Rheological Nanofluid Over a Static Wedge. Journal of Nanofluids, 2019, 8, 1362-1366.	1.4	5
47	Nonsimilar forced convection simulations of water-copper nanofluid flow through a porous medium in the presence of thermal radiations, heat generation and viscous dissipation. Waves in Random and Complex Media, 0, , 1-16.	1.6	5
48	Nonsimilar forced convection analysis of magneto nanofluid (CNTs+Water) flow in Darcyâ€“Forchheimer porous media subjected to thermal radiations and heat generation/absorption. Waves in Random and Complex Media, 0, , 1-14.	1.6	5
49	Closure to â€œComputational Analysis for Mixed Convective Flows of Viscous Fluids With Nanoparticlesâ€•(Farooq, U., Lu, D. C., Ahmed, S., and Ramzan, M., 2019, ASME J. Therm. Sci. Eng. Appl., 11(2),) Tj ET Q q 1 1 0 0 784314 rg	0.8	5
50	On Numerical Thermal Transport Analysis of Three-Dimensional Bioconvective Nanofluid Flow. Journal of Mathematics, 2021, 2021, 1-11.	0.5	4
51	Proper Orthogonal Decomposition Based on Vorticity: Application in a Two-Phase Slug Flow. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	0.8	4
52	Numerical and Theoretical Investigation to Estimate Darcy Friction Factor in Water Network Problem Based on Modified Chun-Hui Heâ€™s Algorithm and Applications. Mathematical Problems in Engineering, 2022, 2022, 1-11.	0.6	4
53	The impact of slip conditions on magnetohydrodynamics radiating fluid beyond an exponentially extended sheet. Journal of Physics: Conference Series, 2018, 1039, 012015.	0.3	2
54	Bioconvection Unsteady Magnetized Flow in a Horizontal Channel with Dufour and Soret Effects. Mathematical Problems in Engineering, 2022, 2022, 1-15.	0.6	2