

Muhammad Ramzan

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.

80
papers

1,393
citations

22
h-index

32
g-index

85
ext. papers

1,957
ext. citations

3.7
avg, IF

5.74
L-index

#	Paper	IF	Citations
80	Performance-based comparison of Yamada-Ota and Hamilton-Crosser hybrid nanofluid flow models with magnetic dipole impact past a stretched surface.. <i>Scientific Reports</i> , 2022 , 12, 29	4.9	5
79	EMHD hybrid squeezing nanofluid flow with variable features and irreversibility analysis. <i>Physica Scripta</i> , 2022 , 97, 025705	2.6	2
78	Hydrodynamic and heat transfer analysis of dissimilar shaped nanoparticles-based hybrid nanofluids in a rotating frame with convective boundary condition.. <i>Scientific Reports</i> , 2022 , 12, 436	4.9	8
77	Hybrid Nanofluid Flow Induced by an Oscillating Disk Considering Surface Catalyzed Reaction and Nanoparticles Shape Factor. <i>Nanomaterials</i> , 2022 , 12, 1794	5.4	0
76	Numerical solutions of coupled nonlinear fractional KdV equations using Heñ fractional calculus. <i>International Journal of Modern Physics B</i> , 2021 , 35, 2150023	1.1	8
75	Significance low oscillating magnetic field and Hall current in the nano-ferrofluid flow past a rotating stretchable disk. <i>Scientific Reports</i> , 2021 , 11, 23204	4.9	3
74	Chemical reaction and thermal radiation impact on a nanofluid flow in a rotating channel with Hall current. <i>Scientific Reports</i> , 2021 , 11, 19747	4.9	10
73	Influence of autocatalytic chemical reaction with heterogeneous catalysis in the flow of Ostwald-de-Waele nanofluid past a rotating disk with variable thickness in porous media. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 128, 105653	5.8	3
72	Comparative study of hybrid and nanofluid flows amidst two rotating disks with thermal stratification: Statistical and numerical approaches. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101598	5.6	6
71	Comparative analysis of Maxwell and Xue models for a hybrid nanofluid film flow on an inclined moving substrate. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101598	5.6	5
70	Partially ionized hybrid nanofluid flow with thermal stratification. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 1457-1468	5.5	12
69	Nonlinear radiative Maxwell nanofluid flow in a Darcy-Forchheimer permeable media over a stretching cylinder with chemical reaction and bioconvection. <i>Scientific Reports</i> , 2021 , 11, 9391	4.9	9
68	3D Bio-convective nanofluid Bñewadt slip flow comprising gyrotactic microorganisms over a stretched stationary disk with modified Fourier law. <i>Physica Scripta</i> , 2021 , 96, 075702	2.6	3
67	Impact of autocatalytic chemical reaction in an Ostwald-de-Waele nanofluid flow past a rotating disk with heterogeneous catalysis. <i>Scientific Reports</i> , 2021 , 11, 15526	4.9	5
66	Role of bioconvection in a three dimensional tangent hyperbolic partially ionized magnetized nanofluid flow with Cattaneo-Christov heat flux and activation energy. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 104994	5.8	22
65	Upshot of heterogeneous catalysis in a nanofluid flow over a rotating disk with slip effects and Entropy optimization analysis. <i>Scientific Reports</i> , 2021 , 11, 120	4.9	22
64	Time-dependent hydromagnetic stagnation point flow of a Maxwell nanofluid with melting heat effect and amended Fourier and Fick's laws. <i>Heat Transfer</i> , 2021 , 50, 4417-4434	3.1	7

63	Application of response surface methodology on the nanofluid flow over a rotating disk with autocatalytic chemical reaction and entropy generation optimization. <i>Scientific Reports</i> , 2021 , 11, 4021	4.9	14
62	Irreversibility minimization analysis of ferromagnetic Oldroyd-B nanofluid flow under the influence of a magnetic dipole. <i>Scientific Reports</i> , 2021 , 11, 4810	4.9	10
61	Multiple slips impact in the MHD hybrid nanofluid flow with Cattaneo-Christov heat flux and autocatalytic chemical reaction. <i>Scientific Reports</i> , 2021 , 11, 14625	4.9	15
60	Soret-Dufour impact on a three-dimensional Casson nanofluid flow with dust particles and variable characteristics in a permeable media. <i>Scientific Reports</i> , 2021 , 11, 14513	4.9	5
59	Impact of Hall Current on a 3D Casson Nanofluid Flow Past a Rotating Deformable Disk with Variable Characteristics. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 12653	2.5	7
58	Bioconvective Reiner-Rivlin nanofluid flow over a rotating disk with Cattaneo-Christov flow heat flux and entropy generation analysis. <i>Scientific Reports</i> , 2021 , 11, 15859	4.9	14
57	Upshot of melting heat transfer in a Von Karman rotating flow of gold-silver/engine oil hybrid nanofluid with Cattaneo-Christov heat flux. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101149	5.6	24
56	Comparative analysis of Yamada-Ota and Xue models for hybrid nanofluid flow amid two concentric spinning disks with variable thermophysical characteristics. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101039	5.6	18
55	Von Karman rotating nanofluid flow with modified Fourier law and variable characteristics in liquid and gas scenarios. <i>Scientific Reports</i> , 2021 , 11, 16442	4.9	6
54	Thermophoretic particle deposition in the flow of dual stratified Casson fluid with magnetic dipole and generalized Fourier's and Fick's laws. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101186	5.6	10
53	Soret and Dufour effects on a Casson nanofluid flow past a deformable cylinder with variable characteristics and Arrhenius activation energy. <i>Scientific Reports</i> , 2021 , 11, 19282	4.9	1
52	Role of Cattaneo-Christov heat flux in an MHD Micropolar dusty nanofluid flow with zero mass flux condition. <i>Scientific Reports</i> , 2021 , 11, 19528	4.9	8
51	On hybrid nanofluid Yamada-Ota and Xue flow models in a rotating channel with modified Fourier law. <i>Scientific Reports</i> , 2021 , 11, 19590	4.9	1
50	Impact of Newtonian heating and Fourier and Fick's laws on a magnetohydrodynamic dusty Casson nanofluid flow with variable heat source/sink over a stretching cylinder. <i>Scientific Reports</i> , 2021 , 11, 23574	4.9	23
49	Nanofluid flow containing carbon nanotubes with quartic autocatalytic chemical reaction and Thompson and Troian slip at the boundary. <i>Scientific Reports</i> , 2020 , 10, 18710	4.9	9
48	Unsteady MHD carbon nanotubes suspended nanofluid flow with thermal stratification and nonlinear thermal radiation. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 1557-1566	6.1	21
47	Radiative MHD Nanofluid Flow over a Moving Thin Needle with Entropy Generation in a Porous Medium with Dust Particles and Hall Current. <i>Entropy</i> , 2020 , 22,	2.8	25
46	Thermally Stratified Darcy Forchheimer Flow on a Moving Thin Needle with Homogeneous Heterogeneous Reactions and Non-Uniform Heat Source/Sink. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 432	2.6	12

45	Numerical Analysis of Carbon Nanotube-Based Nanofluid Unsteady Flow Amid Two Rotating Disks with Hall Current Coatings and Homogeneous/Heterogeneous Reactions. <i>Coatings</i> , 2020 , 10, 48	2.9	6
44	Effects of Chemical Species and Nonlinear Thermal Radiation with 3D Maxwell Nanofluid Flow with Double Stratification-An Analytical Solution. <i>Entropy</i> , 2020 , 22,	2.8	21
43	Numerical Simulation of 3D Condensation Nanofluid Film Flow with Carbon Nanotubes on an Inclined Rotating Disk. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 168	2.6	21
42	Numerical treatment of radiative Nickel-Zinc ferrite-Ethylene glycol nanofluid flow past a curved surface with thermal stratification and slip conditions. <i>Scientific Reports</i> , 2020 , 10, 16832	4.9	8
41	Significance of magnetic Reynolds number in a three-dimensional squeezing Darcy-Forchheimer hydromagnetic nanofluid thin-film flow between two rotating disks. <i>Scientific Reports</i> , 2020 , 10, 17208	4.9	16
40	Impact of melting heat transfer in the time-dependent squeezing nanofluid flow containing carbon nanotubes in a Darcy-Forchheimer porous media with Cattaneo-Christov heat flux. <i>Communications in Theoretical Physics</i> , 2020 , 72, 085801	2.4	20
39	A novel model to analyze Darcy Forchheimer nanofluid flow in a permeable medium with Entropy generation analysis. <i>Journal of Taibah University for Science</i> , 2020 , 14, 916-930	3	10
38	Comparative analysis of magnetized partially ionized copper, copper oxide-water and kerosene oil nanofluid flow with Cattaneo-Christov heat flux. <i>Scientific Reports</i> , 2020 , 10, 19300	4.9	15
37	Onset of gyrotactic microorganisms in MHD Micropolar nanofluid flow with partial slip and double stratification. <i>Journal of King Saud University - Science</i> , 2020 , 32, 2741-2751	3.6	29
36	Nanofluid flow with autocatalytic chemical reaction over a curved surface with nonlinear thermal radiation and slip condition. <i>Scientific Reports</i> , 2020 , 10, 18339	4.9	7
35	Impact of hall and ion slip in a thermally stratified nanofluid flow comprising Cu and AlO nanoparticles with nonuniform source/sink. <i>Scientific Reports</i> , 2020 , 10, 18064	4.9	11
34	Significance of Hall effect and Ion slip in a three-dimensional bioconvective Tangent hyperbolic nanofluid flow subject to Arrhenius activation energy. <i>Scientific Reports</i> , 2020 , 10, 18342	4.9	28
33	Thermally stratified Darcy-Forchheimer nanofluid flow comprising carbon nanotubes with effects of Cattaneo-Christov heat flux and homogeneous/heterogeneous reactions. <i>Physica Scripta</i> , 2020 , 95, 015701	2.6	14
32	Magnetized suspended carbon nanotubes based nanofluid flow with bio-convection and entropy generation past a vertical cone. <i>Scientific Reports</i> , 2019 , 9, 12225	4.9	43
31	HEILZAKI METHOD FOR SPATIAL DIFFUSION OF BIOLOGICAL POPULATION. <i>Fractals</i> , 2019 , 27, 1950069	3.2	17
30	Numerical Simulation of Darcy-Forchheimer 3D Unsteady Nanofluid Flow Comprising Carbon Nanotubes with Cattaneo-Christov Heat Flux and Velocity and Thermal Slip Conditions. <i>Processes</i> , 2019 , 7, 687	2.9	28
29	MHD flow of Maxwell fluid with nanomaterials due to an exponentially stretching surface. <i>Scientific Reports</i> , 2019 , 9, 7312	4.9	53
28	A Thin Film Flow of Nanofluid Comprising Carbon Nanotubes Influenced by Cattaneo-Christov Heat Flux and Entropy Generation. <i>Coatings</i> , 2019 , 9, 296	2.9	25

27	MHD Boundary Layer Flow of Carreau Fluid over a Convectively Heated Bidirectional Sheet with Non-Fourier Heat Flux and Variable Thermal Conductivity. <i>Symmetry</i> , 2019 , 11, 618	2.7	14
26	A Numerical Simulation of Silver-Water Nanofluid Flow with Impacts of Newtonian Heating and Homogeneous-Heterogeneous Reactions Past a Nonlinear Stretched Cylinder. <i>Symmetry</i> , 2019 , 11, 295	2.7	33
25	On the convective heat and zero nanoparticle mass flux conditions in the flow of 3D MHD Couple Stress nanofluid over an exponentially stretched surface. <i>Scientific Reports</i> , 2019 , 9, 562	4.9	43
24	Entropy Analysis of Carbon Nanotubes Based Nanofluid Flow Past a Vertical Cone with Thermal Radiation. <i>Entropy</i> , 2019 , 21,	2.8	24
23	Effect of second order slip condition on the flow of Tangent hyperbolic fluid- novel perception of Cattaneo-Christov heat flux. <i>Physica Scripta</i> , 2019 , 94, 115707	2.6	9
22	Onset of Cattaneo-Christov Heat Flux and Thermal Stratification in Ethylene-Glycol Based Nanofluid Flow Containing Carbon Nanotubes in a Rotating Frame. <i>IEEE Access</i> , 2019 , 7, 146190-146197	3.5	15
21	Numerical simulation for homogeneous-heterogeneous reactions and Newtonian heating in the silver-water nanofluid flow past a nonlinear stretched cylinder. <i>Physica Scripta</i> , 2019 , 94, 085702	2.6	19
20	Impact of Nonlinear Chemical Reaction and Melting Heat Transfer on an MHD Nanofluid Flow over a Thin Needle in Porous Media. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5492	2.6	7
19	Impact of Second-Order Slip and Double Stratification Coatings on 3D MHD Williamson Nanofluid Flow with Cattaneo-Christov Heat Flux. <i>Coatings</i> , 2019 , 9, 849	2.9	16
18	Study of heat transfer and entropy generation in ferrofluid under low oscillating magnetic field. <i>Indian Journal of Physics</i> , 2019 , 93, 749-758	1.4	12
17	Computational Analysis for Mixed Convective Flows of Viscous Fluids With Nanoparticles. <i>Journal of Thermal Science and Engineering Applications</i> , 2019 , 11,	1.9	9
16	Impact of Nonlinear Thermal Radiation and Entropy Optimization Coatings with Hybrid Nanoliquid Flow Past a Curved Stretched Surface. <i>Coatings</i> , 2018 , 8, 430	2.9	24
15	Entropy Analysis of 3D Non-Newtonian MHD Nanofluid Flow with Nonlinear Thermal Radiation Past over Exponential Stretched Surface. <i>Entropy</i> , 2018 , 20,	2.8	21
14	Significance of Darcy-Forchheimer Porous Medium in Nanofluid Through Carbon Nanotubes. <i>Communications in Theoretical Physics</i> , 2018 , 70, 361	2.4	66
13	Radiative magnetohydrodynamic nanofluid flow due to gyrotactic microorganisms with chemical reaction and non-linear thermal radiation. <i>International Journal of Mechanical Sciences</i> , 2017 , 130, 31-40	5.5	60
12	Partial slip effect in the flow of MHD micropolar nanofluid flow due to a rotating disk -A numerical approach. <i>Results in Physics</i> , 2017 , 7, 3557-3566	3.7	45
11	Radiative Flow of Powell-Eyring Magneto-Nanofluid over a Stretching Cylinder with Chemical Reaction and Double Stratification near a Stagnation Point. <i>PLoS ONE</i> , 2017 , 12, e0170790	3.7	43
10	Influence of Newtonian heating on three dimensional MHD flow of couple stress nanofluid with viscous dissipation and Joule heating. <i>PLoS ONE</i> , 2015 , 10, e0124699	3.7	45

9	Time Dependent MHD Nano-Second Grade Fluid Flow Induced by Permeable Vertical Sheet with Mixed Convection and Thermal Radiation. <i>PLoS ONE</i> , 2015 , 10, e0124929	3-7	43
8	Radiative hydromagnetic flow of jeffrey nanofluid by an exponentially stretching sheet. <i>PLoS ONE</i> , 2014 , 9, e103719	3-7	57
7	Entropy Minimization Analysis of a Partially Ionized Casson Nanofluid Flow over a Bidirectional Stretching Sheet with Surface Catalyzed Reaction. <i>Arabian Journal for Science and Engineering</i> ,1	2-5	3
6	A novel approach for EMHD Williamson nanofluid over nonlinear sheet with double stratification and Ohmic dissipation. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> ,095440892110596	1-5	5
5	Impact of melting heat transfer in the bioconvective Casson nanofluid flow past a stretching cylinder with entropy generation minimization analysis. <i>International Journal of Modern Physics B</i> ,	1-1	5
4	Comparative Analysis of Five Nanoparticles in the Flow of Viscous Fluid with Nonlinear Radiation and Homogeneous Heterogeneous Reaction. <i>Arabian Journal for Science and Engineering</i> ,1	2-5	2
3	Model-based comparative study of magnetohydrodynamics unsteady hybrid nanofluid flow between two infinite parallel plates with particle shape effects. <i>Mathematical Methods in the Applied Sciences</i> ,	2-3	39
2	Comparative study of hybrid and nanofluid flows over an exponentially stretched curved surface with modified Fourier law and dust particles. <i>Waves in Random and Complex Media</i> ,1-21	1-9	2
1	Maxwell nanofluid flow influenced by variable characteristics and higher-order chemical reaction with convective conditions in a rotating frame. <i>Waves in Random and Complex Media</i> ,1-28	1-9	