

Wasim Jamshed

List of Publications by Year in descending order

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210
papers

5,710
citations

98825

36
h-index

156116

55
g-index

217
all docs

217
docs citations

217
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal expansion optimization in solar aircraft using tangent hyperbolic hybrid nanofluid: a solar thermal application. <i>Journal of Materials Research and Technology</i> , 2021, 14, 985-1006.	5.9	150
2	Evaluating the unsteady Casson nanofluid over a stretching sheet with solar thermal radiation: An optimal case study. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101160.	5.8	148
3	Cattaneo-Christov based study of TiO_2 -CuO/EG Casson hybrid nanofluid flow over a stretching surface with entropy generation. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 685-698.	3.1	142
4	Computational single-phase comparative study of a Williamson nanofluid in a parabolic trough solar collector via the Keller box method. <i>International Journal of Energy Research</i> , 2021, 45, 10696-10718.	4.4	132
5	Entropy analysis of Powell-Eyring hybrid nanofluid including effect of linear thermal radiation and viscous dissipation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1331-1343.	3.6	130
6	Numerical investigation of MHD impact on Maxwell nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 104973.	5.7	124
7	Radiative heat transfer of second grade nanofluid flow past a porous flat surface: a single-phase mathematical model. <i>Physica Scripta</i> , 2021, 96, 064006.	2.5	120
8	Computational frame work of Cattaneo-Christov heat flux effects on Engine Oil based Williamson hybrid nanofluids: A thermal case study. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101179.	5.8	119
9	Single phase based study of Ag-Cu/EO Williamson hybrid nanofluid flow over a stretching surface with shape factor. <i>Physica Scripta</i> , 2021, 96, 065202.	2.5	116
10	Galerkin finite element analysis of thermal aspects of FeO-MWCNT/water hybrid nanofluid filled in wavy enclosure with uniform magnetic field effect. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105461.	5.7	104
11	A comparative entropy based analysis of Cu and Fe ₃ O ₄ /methanol Powell-Eyring nanofluid in solar thermal collectors subjected to thermal radiation, variable thermal conductivity and impact of different nanoparticles shape. <i>Results in Physics</i> , 2018, 9, 195-205.	4.2	97
12	A comparative entropy based analysis of tangent hyperbolic hybrid nanofluid flow: Implementing finite difference method. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105671.	5.7	96
13	Radiation effect on MHD Casson fluid flow over an inclined non-linear surface with chemical reaction in a Forchheimer porous medium. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 8207-8220.	6.7	86
14	Thermal growth in solar water pump using Prandtl-Eyring hybrid nanofluid: a solar energy application. <i>Scientific Reports</i> , 2021, 11, 18704.	3.4	78
15	Thermal Characterization of Coolant Maxwell Type Nanofluid Flowing in Parabolic Trough Solar Collector (PTSC) Used Inside Solar Powered Ship Application. <i>Coatings</i> , 2021, 11, 1552.	2.7	77
16	Statistical analysis of viscous hybridized nanofluid flowing via Galerkin finite element technique. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106244.	5.7	77
17	Physical specifications of MHD mixed convective of Ostwald-de Waele nanofluids in a vented-cavity with inner elliptic cylinder. <i>International Communications in Heat and Mass Transfer</i> , 2022, 134, 106038.	5.7	73
18	Galerkin finite element solution for electromagnetic radiative impact on viscous Williamson two-phase nanofluid flow via extendable surface. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106243.	5.7	71

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19	Thermal radiative mixed convection flow of MHD Maxwell nanofluid: Implementation of buongiorno's model. Chinese Journal of Physics, 2022, 77, 1465-1478.	4.0	69
20	Thermal examination of renewable solar energy in parabolic trough solar collector utilizing Maxwell nanofluid: A noble case study. Case Studies in Thermal Engineering, 2021, 27, 101258.	5.8	65
21	Effectiveness of Nonuniform Heat Generation (Sink) and Thermal Characterization of a Carreau Fluid Flowing across a Nonlinear Elongating Cylinder: A Numerical Study. ACS Omega, 2022, 7, 25309-25320.	3.6	65
22	Mathematical model for thermal and entropy analysis of thermal solar collectors by using Maxwell nanofluids with slip conditions, thermal radiation and variable thermal conductivity. Open Physics, 2018, 16, 123-136.	1.7	58
23	Comprehensive study of thermophoretic diffusion deposition velocity effect on heat and mass transfer of ferromagnetic fluid flow along a stretching cylinder. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1479-1489.	2.5	58
24	Hydrothermal and Entropy Investigation of Ag/MgO/H ₂ O Hybrid Nanofluid Natural Convection in a Novel Shape of Porous Cavity. Applied Sciences (Switzerland), 2021, 11, 1722.	2.6	56
25	Solar water-pump thermal analysis utilizing copper-gold/engine oil hybrid nanofluid flowing in parabolic trough solar collector: Thermal case study. Case Studies in Thermal Engineering, 2022, 30, 101756.	5.8	55
26	A finite element analysis of thermal energy inclination based on ternary hybrid nanoparticles influenced by induced magnetic field. International Communications in Heat and Mass Transfer, 2022, 135, 106074.	5.7	53
27	Features of entropy optimization on viscous second grade nanofluid streamed with thermal radiation: A Tiwari and Das model. Case Studies in Thermal Engineering, 2021, 27, 101291.	5.8	51
28	Comprehensive analysis on copper-iron (II, III)/oxide-engine oil Casson nanofluid flowing and thermal features in parabolic trough solar collector. Journal of Taibah University for Science, 2021, 15, 619-636.	2.6	51
29	Keller box study for inclined magnetically driven Casson nanofluid over a stretching sheet: single phase model. Physica Scripta, 2021, 96, 065201.	2.5	49
30	Intelligent computing Levenberg Marquardt approach for entropy optimized single-phase comparative study of second grade nanofluidic system. International Communications in Heat and Mass Transfer, 2021, 127, 105544.	5.7	49
31	Irregular heat source impact on carreau nanofluid flowing via exponential expanding cylinder: A thermal case study. Case Studies in Thermal Engineering, 2022, 36, 102171.	5.8	48
32	A numerical frame work of magnetically driven Powell-Eyring nanofluid using single phase model. Scientific Reports, 2021, 11, 16500.	3.4	47
33	Thermal and solutal performance of Cu/CuO nanoparticles on a non-linear radially stretching surface with heat source/sink and varying chemical reaction effects. International Communications in Heat and Mass Transfer, 2021, 129, 105710.	5.7	47
34	Thermal analysis on Darcy-Forchheimer swirling Casson hybrid nanofluid flow inside parallel plates in parabolic trough solar collector: An application to solar aircraft. International Journal of Energy Research, 2021, 45, 20812-20834.	4.4	46
35	A novel case study of thermal and streamline analysis in a grooved enclosure filled with (Ag-MgO/Water) hybrid nanofluid: Galerkin FEM. Case Studies in Thermal Engineering, 2021, 28, 101372.	5.8	45
36	Entropy and heat transfer analysis using Cattaneo-Christov heat flux model for a boundary layer flow of Casson nanofluid. Results in Physics, 2018, 10, 640-649.	4.2	44

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37	Magneto hydrodynamics Natural Convection of a Triangular Cavity Involving Ag-MgO/Water Hybrid Nanofluid and Provided with Rotating Circular Barrier and a Quarter Circular Porous Medium at its Right-Angled Corner. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 12573-12597.	3.1	43
38	Thermal augmentation in solar aircraft using tangent hyperbolic hybrid nanofluid: A solar energy application. <i>Energy and Environment</i> , 2022, 33, 1090-1133.	4.5	43
39	Heat flow saturate of Ag/MgO-water hybrid nanofluid in heated trigonal enclosure with rotate cylindrical cavity by using Galerkin finite element. <i>Scientific Reports</i> , 2022, 12, 2302.	3.4	43
40	Heat transfer analysis of MHD rotating flow of Fe ₃ O ₄ nanoparticles through a stretchable surface. <i>Communications in Theoretical Physics</i> , 2021, 73, 075004.	2.4	42
41	Micropolar fluid past a convectively heated surface embedded with nth order chemical reaction and heat source/sink. <i>Physica Scripta</i> , 2021, 96, 104010.	2.5	42
42	MHD darcy-forchheimer nanofluid flow and entropy optimization in an odd-shaped enclosure filled with a (MWCNT-Fe ₃ O ₄ /water) using galerkin finite element analysis. <i>Scientific Reports</i> , 2021, 11, 22635.	3.4	42
43	Study on heat transfer aspects of solar aircraft wings for the case of Reiner-Philippoff hybrid nanofluid past a parabolic trough: Keller box method. <i>Physica Scripta</i> , 2021, 96, 095220.	2.5	41
44	MHD thermal boundary layer flow of a Casson fluid over a penetrable stretching wedge in the existence of nonlinear radiation and convective boundary condition. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 5473-5483.	6.7	41
45	Computational analysis of thermal energy distribution of electromagnetic Casson nanofluid across stretched sheet: Shape factor effectiveness of solid-particles. <i>Energy Reports</i> , 2021, 7, 7460-7477.	5.2	40
46	2D mixed convection non-Darcy model with radiation effect in a nanofluid over an inclined wavy surface. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 9965-9976.	6.7	40
47	Thermal analysis characterisation of solar-powered ship using Oldroyd hybrid nanofluids in parabolic trough solar collector: An optimal thermal application. <i>Nanotechnology Reviews</i> , 2022, 11, 2015-2037.	5.9	40
48	Heat transfer and entropy analysis of Maxwell hybrid nanofluid including effects of inclined magnetic field, Joule heating and thermal radiation. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2020, 13, 2667-2690.	1.1	39
49	Trace of Chemical Reactions Accompanied with Arrhenius Energy on Ternary Hybridity Nanofluid Past a Wedge. <i>Symmetry</i> , 2022, 14, 1850.	2.3	39
50	Computational case study on tangent hyperbolic hybrid nanofluid flow: Single phase thermal investigation. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101246.	5.8	38
51	Comparative Study on Effects of Thermal Gradient Direction on Heat Exchange between a Pure Fluid and a Nanofluid: Employing Finite Volume Method. <i>Coatings</i> , 2021, 11, 1481.	2.7	38
52	Heat transfer enhancement through nanofluids with applications in automobile radiator. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101192.	5.8	36
53	Implementing renewable solar energy in presence of Maxwell nanofluid in parabolic trough solar collector: a computational study. <i>Waves in Random and Complex Media</i> , 0, , 1-32.	2.7	36
54	Galerkin finite element inspection of thermal distribution of renewable solar energy in presence of binary nanofluid in parabolic trough solar collector. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 11063-11076.	6.7	36

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55	Radiative and porosity effects of trihybrid Casson nanofluids with BÅ¼dewadt flow and inconstant heat source by Yamada-Ota and Xue models. <i>AEJ - Alexandria Engineering Journal</i> , 2023, 66, 457-473.	6.7	35
56	Galerkin finite element analysis of magneto two-phase nanofluid flowing in double wavy enclosure comprehending an adiabatic rotating cylinder. <i>Scientific Reports</i> , 2021, 11, 16494.	3.4	34
57	Galerkin finite element analysis of Darcyâ€œBrinkmanâ€œForchheimer natural convective flow in conical annular enclosure with discrete heat sources. <i>Energy Reports</i> , 2021, 7, 6172-6181.	5.2	34
58	Hydrogen energy storage optimization in solar-HVAC using Sutterby nanofluid via Koo-Kleinstreuer and Li (KKL) correlations model: A solar thermal application. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18877-18891.	7.2	34
59	Quasi-linearization analysis for heat and mass transfer of magnetically driven 3rd-grade (Cu-TiO ₂ /engine oil) nanofluid via a convectively heated surface. <i>International Communications in Heat and Mass Transfer</i> , 2022, 135, 106060.	5.7	34
60	Computational investigation of heat transfer in a flow subjected to magnetohydrodynamic of Maxwell nanofluid over a stretched flat sheet with thermal radiation. <i>Numerical Methods for Partial Differential Equations</i> , 2023, 39, 3499-3519.	3.7	33
61	Finite element method in thermal characterization and streamline flow analysis of electromagnetic silver-magnesium oxide nanofluid inside grooved enclosure. <i>International Communications in Heat and Mass Transfer</i> , 2022, 130, 105795.	5.7	33
62	Thermal radiative flux and energy of Arrhenius evaluation on stagnating point flowing of Carreau nanofluid: A thermal case study. <i>Case Studies in Thermal Engineering</i> , 2022, 40, 102583.	5.8	33
63	Features of Cu and TiO ₂ in the flow of engine oil subject to thermal jump conditions. <i>Scientific Reports</i> , 2021, 11, 19592.	3.4	32
64	Case study of autocatalysis reactions on tetra hybrid binary nanofluid flow via Riga wedge: Biofuel thermal application. <i>Case Studies in Thermal Engineering</i> , 2023, 47, 103058.	5.8	31
65	Computational examination of Casson nanofluid due to a <sc>nonâ€œlinear</sc> stretching sheet subjected to particle shape factor: Tiwari and Das model. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 848-875.	3.7	30
66	Influence of entropy on Brinkmanâ€œForchheimer model of MHD hybrid nanofluid flowing in enclosure containing rotating cylinder and undulating porous stratum. <i>Scientific Reports</i> , 2021, 11, 24316.	3.4	30
67	A case study of different magnetic strength fields and thermal energy effects in vortex generation of Ag-TiO ₂ hybrid nanofluid flow. <i>Case Studies in Thermal Engineering</i> , 2023, 47, 103115.	5.8	30
68	Comparative Numerical Study of Thermal Features Analysis between Oldroyd-B Copper and Molybdenum Disulfide Nanoparticles in Engine-Oil-Based Nanofluids Flow. <i>Coatings</i> , 2021, 11, 1196.	2.7	28
69	Entropy Amplified solitary phase relative probe on engine oil based hybrid nanofluid. <i>Chinese Journal of Physics</i> , 2022, 77, 1654-1681.	4.0	28
70	Dynamics of convective slippery constraints on hybrid radiative Sutterby nanofluid flow by Galerkin finite element simulation. <i>Nanotechnology Reviews</i> , 2022, 11, 1219-1236.	5.9	28
71	The flow, thermal and mass properties of Soret-Dufour model of magnetized Maxwell nanofluid flow over a shrinkage inclined surface. <i>PLoS ONE</i> , 2022, 17, e0267148.	2.5	28
72	Solar radiative and chemical reactive influences on electromagnetic Maxwell nanofluid flow in Buongiorno model. <i>Journal of Magnetism and Magnetic Materials</i> , 2023, 576, 170748.	2.3	28

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73	Effect of Cattaneo-Christov heat flux case on Darcy-Forchheimer flowing of Sutterby nanofluid with chemical reactive and thermal radiative impacts. <i>Case Studies in Thermal Engineering</i> , 2023, 42, 102737.	5.8	27
74	Thermal transport and characterized flow of trihybrid Tiwari and Das Sisko nanofluid via a stenosis artery: A case study. <i>Case Studies in Thermal Engineering</i> , 2023, 47, 103064.	5.8	27
75	Features and aspects of radioactive flow and slippage velocity on rotating two-phase Prandtl nanofluid with zero mass fluxing and convective constraints. <i>International Communications in Heat and Mass Transfer</i> , 2022, 136, 106180.	5.7	26
76	Computational analysis of Ohmic and viscous dissipation effects on MHD heat transfer flow of -PVA Jeffrey nanofluid through a stretchable surface. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101148.	5.8	25
77	The improved thermal efficiency of Prandtl-Eyring hybrid nanofluid via classical Keller box technique. <i>Scientific Reports</i> , 2021, 11, 23535.	3.4	25
78	Artificial neural network modeling of mixed convection viscoelastic hybrid nanofluid across a circular cylinder with radiation effect: Case study. <i>Case Studies in Thermal Engineering</i> , 2023, 50, 103487.	5.8	25
79	Impact of gold nanoparticles along with Maxwell velocity and Smoluchowski temperature slip boundary conditions on fluid flow: Sutterby model. <i>Chinese Journal of Physics</i> , 2022, 77, 1387-1404.	4.0	24
80	Chemical reaction and thermal characteristics of Maxwell nanofluid flow-through solar collector as a potential solar energy cooling application: A modified Buongiorno's model. <i>Energy and Environment</i> , 2023, 34, 1409-1432.	4.5	24
81	Molecular Interaction and Magnetic Dipole Effects on Fully Developed Nanofluid Flowing via a Vertical Duct Applying Finite Volume Methodology. <i>Symmetry</i> , 2022, 14, 2007.	2.3	24
82	Electro-magnetic radiative flowing of Williamson-dusty nanofluid along elongating sheet: Nanotechnology application. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104698.	5.1	24
83	Intelligent Computing with Levenberg-Marquardt Backpropagation Neural Networks for Third-Grade Nanofluid Over a Stretched Sheet with Convective Conditions. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 8211-8229.	3.1	23
84	Impact of Maxwell velocity slip and Smoluchowski temperature slip on CNTs with modified Fourier theory: Reiner-Philippoff model. <i>PLoS ONE</i> , 2021, 16, e0258367.	2.5	23
85	Numerical investigation of thin-film flow over a rotating disk subject to the heat source and nonlinear radiation: Lobatto IIIA approach. <i>Waves in Random and Complex Media</i> , 0, , 1-15.	2.7	23
86	A mathematical model of blood flow in a stenosed artery with post-stenotic dilatation and a forced field. <i>PLoS ONE</i> , 2022, 17, e0266727.	2.5	23
87	Rheology of Variable Viscosity-Based Mixed Convective Inclined Magnetized Cross Nanofluid with Varying Thermal Conductivity. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 9041.	2.6	23
88	Mathematical model for thermal solar collectors by using magnetohydrodynamic Maxwell nanofluid with slip conditions, thermal radiation and variable thermal conductivity. <i>Results in Physics</i> , 2017, 7, 3425-3433.	4.2	22
89	Unsteady MHD slip flow of non Newtonian power-law nanofluid over a moving surface with temperature dependent thermal conductivity. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2018, 11, 617-630.	1.1	22
90	Thermal efficiency enhancement of solar aircraft by utilizing unsteady hybrid nanofluid: A single-phase optimized entropy analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 101898.	2.9	22

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91	Spectral Relaxation Methodology for Chemical and Bioconvection Processes for Cross Nanofluid Flowing around an Oblique Cylinder with a Slanted Magnetic Field Effect. <i>Coatings</i> , 2022, 12, 1560.	2.7	22
92	Thermal and thermo-hydraulic behaviour of alumina-graphene hybrid nanofluid in minichannel heat sink: An experimental study. <i>International Journal of Energy Research</i> , 2021, 45, 20700-20714.	4.4	21
93	Irreversibility process characteristics of variant viscosity and conductivity on hybrid nanofluid flow through Poiseuille microchannel: A special case study. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101337.	5.8	21
94	Cumulative Impact of Micropolar Fluid and Porosity on MHD Channel Flow: A Numerical Study. <i>Coatings</i> , 2022, 12, 93.	2.7	21
95	MHD Hybrid Nanofluid Flow Due to Rotating Disk with Heat Absorption and Thermal Slip Effects: An Application of Intelligent Computing. <i>Coatings</i> , 2021, 11, 1554.	2.7	21
96	Electromagnetic Control and Dynamics of Generalized Burgers' Nanoliquid Flow Containing Motile Microorganisms with Cattaneo-Christov Relations: Galerkin Finite Element Mechanism. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8636.	2.6	21
97	Numerical Crank-Nicolson methodology analysis for hybrid aluminium alloy nanofluid flowing based-water via stretchable horizontal plate with thermal resistive effect. <i>Case Studies in Thermal Engineering</i> , 2023, 42, 102707.	5.8	21
98	Numerical treatment of 2D-Magneto double-diffusive convection flow of a Maxwell nanofluid: Heat transport case study. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101383.	5.8	20
99	Solar-HVAC Thermal Investigation Utilizing (Cu-AA7075/C6H9NaO7) MHD-Driven Hybrid Nanofluid Rotating Flow via Second-Order Convergent Technique: A Novel Engineering Study. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 3301-3322.	3.1	20
100	Flow and heat transport phenomenon for dynamics of Jeffrey nanofluid past stretchable sheet subject to Lorentz force and dissipation effects. <i>Scientific Reports</i> , 2021, 11, 22924.	3.4	19
101	Galerkin finite element study for mixed convection (TiO ₂ -SiO ₂ /water) hybrid-nanofluidic flow in a triangular aperture heated beneath. <i>Scientific Reports</i> , 2021, 11, 22905.	3.4	19
102	Chemical Reactive and Viscous Dissipative Flow of Magneto Nanofluid via Natural Convection by Employing Galerkin Finite Element Technique. <i>Coatings</i> , 2022, 12, 151.	2.7	19
103	Entropy Optimized Second Grade Fluid with MHD and Marangoni Convection Impacts: An Intelligent Neuro-Computing Paradigm. <i>Coatings</i> , 2021, 11, 1492.	2.7	18
104	Buoyancy force and Arrhenius energy impacts on Buongiorno electromagnetic nanofluid flow containing gyrotactic microorganism. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 9459-9471.	2.0	18
105	Activation Energy and Inclination Magnetic Dipole Influences on Carreau Nanofluid Flowing via Cylindrical Channel with an Infinite Shearing Rate. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8779.	2.6	18
106	Finite Element Analysis and Wear Rate Analysis of Nano Coated High Speed Steel Tools for Industrial Application. <i>Babylonian journal of mechanical engineering</i> , 0, 2023, 13-19.	0.0	18
107	Mathematical Entropy Analysis of Natural Convection of MWCNT-Fe ₃ O ₄ /Water Hybrid Nanofluid with Parallel Magnetic Field via Galerkin Finite Element Process. <i>Symmetry</i> , 2022, 14, 2312.	2.3	17
108	Experimental and numerical study of using of LPG on characteristics of dual fuel diesel engine under variable compression ratio. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104899.	5.1	17

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109	Von Karman rotating nanofluid flow with modified Fourier law and variable characteristics in liquid and gas scenarios. <i>Scientific Reports</i> , 2021, 11, 16442.	3.4	16
110	Thermal valuation and entropy inspection of second-grade nanoscale fluid flow over a stretching surface by applying Koo's "Kleinstreuer" Li relation. <i>Nanotechnology Reviews</i> , 2022, 11, 2061-2077.	5.9	16
111	Mechanical engineering advantages of a dual fuel diesel engine powered by diesel and aqueous ammonia blends. <i>Fuel</i> , 2023, 346, 128398.	6.6	16
112	Numerical study of magnetic field interaction with fully developed flow in a vertical duct. <i>AJ - Alexandria Engineering Journal</i> , 2022, 61, 11351-11363.	6.7	15
113	Keller box analysis for thermal efficiency of magneto time-dependent nanofluid flowing in solar-powered tractor application applying nano-metal shaped factor. <i>Waves in Random and Complex Media</i> , 0, , 1-36.	2.7	15
114	Effect of a rotating cylinder on the 3D MHD mixed convection in a phase change material filled cubic enclosure. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101879.	2.9	14
115	Numerical Simulations of Environmental Energy Features in Solar Pump Application by Using Hybrid Nanofluid Flow: Prandtl-Eyring Case. <i>Energy and Environment</i> , 2023, 34, 780-807.	4.5	14
116	Catalysis reaction influence on 3D tetra hybrid nanofluid flow via oil rig solar panel sheet: Case study towards oil extraction. <i>Case Studies in Thermal Engineering</i> , 2023, 49, 103261.	5.8	14
117	Entropy analysis of radiative [MgZn ₆ Zr-Cu/EO] Casson hybrid nanofluid with variant thermal conductivity along a stretching surface: Implementing Keller box method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 6501-6520.	2.0	13
118	Mechanical improvement in solar aircraft by using tangent hyperbolic single-phase nanofluid. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892110593.	2.5	13
119	Entropy and thermal case description of monophasic magneto nanofluid with thermal jump and Ohmic heating employing finite element methodology. <i>Case Studies in Thermal Engineering</i> , 2023, 45, 102919.	5.8	13
120	Thermal case classification of solar-powered cars for binary tetra hybrid nanofluid using Cash and Carp method with Hamilton-Crosser model. <i>Case Studies in Thermal Engineering</i> , 2023, 49, 103174.	5.8	13
121	Investigating the effect of milling time on structural, mechanical and tribological properties of a nanostructured hipped alpha alumina for biomaterial applications. <i>Arabian Journal of Chemistry</i> , 2023, 16, 105112.	5.1	13
122	Computational single phase comparative study of inclined MHD in Powell's Eyring nanofluid. <i>Heat Transfer</i> , 2021, 50, 3879-3912.	3.0	12
123	Dynamical irreversible processes analysis of Poiseuille magneto-hybrid nanofluid flow in microchannel: A novel case study. <i>Waves in Random and Complex Media</i> , 0, , 1-23.	2.7	12
124	Efficiency evaluation of solar water-pump using nanofluids in parabolic trough solar collector: 2nd order convergent approach. <i>Waves in Random and Complex Media</i> , 0, , 1-37.	2.7	12
125	Computational technique of thermal comparative examination of Cu and Au nanoparticles suspended in sodium alginate as Sutterby nanofluid via extending PTSC surface. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2022, 20, 228080002211040.	1.7	12
126	Shape-factor and radiative flux impacts on unsteady graphene-copper hybrid nanofluid with entropy optimisation: Cattaneo-Christov heat flux theory. <i>Pramana - Journal of Physics</i> , 2022, 96, .	1.6	12

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127	Vortex generation due to multiple localized magnetic fields in the hybrid nanofluid flow – A numerical investigation. <i>Heliyon</i> , 2023, 9, e17756.	3.3	12
128	Thermal analysis of magnetohydrodynamics (MHD) Casson fluid with suspended iron (II, III) oxide-aluminum oxide-titanium dioxide ternary-hybrid nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2023, 586, 171223.	2.3	12
129	Extension of natural transform method with Daftardar-Jafari polynomials for fractional order differential equations. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3205-3217.	6.7	11
130	Numerical simulations and analysis for mathematical model of avascular tumor growth using Gompertz growth rate function. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3731-3740.	6.7	11
131	Computational Galerkin Finite Element Method for Thermal Hydrogen Energy Utilization of First Grade Viscoelastic Hybrid Nanofluid Flowing Inside PTSC in Solar Powered Ship Applications. <i>Energy and Environment</i> , 2023, 34, 1031-1059.	4.5	11
132	Numerical heat and solutal transfer simulation of fluid flowing via absorptive shrinkable sheet with Ohmic heat resistance. <i>Numerical Heat Transfer; Part A: Applications</i> , 2024, 85, 1552-1568.	2.1	11
133	A thermal case study of three dimensional MHD rotating flow comprising of multi-wall carbon nanotubes (MWCNTs) for sustainable energy systems. <i>Case Studies in Thermal Engineering</i> , 2023, 50, 103504.	5.8	11
134	Thermal analysis for Al_2O_3 –sodium alginate magnetized Jeffrey's nanofluid flow past a stretching sheet embedded in a porous medium. <i>Scientific Reports</i> , 2022, 12, 3287.	3.4	10
135	Numerical solution of Catteno-Christov heat flux model over stretching/shrinking hybrid nanofluid by new iterative method. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101673.	5.8	10
136	Cubic Chemical Autocatalysis and Oblique Magneto Dipole Effectiveness on Cross Nanofluid Flow via a Symmetric Stretchable Wedge. <i>Symmetry</i> , 2023, 15, 1145.	2.3	10
137	Chemical reactive process of unsteady bioconvective magneto Williamson nanofluid flow across wedge with nonlinearly thermal radiation: Darcy–Forchheimer model. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2023, 84, 432-448.	0.9	10
138	Raising thermal efficiency of solar water pump using Oldroyd-B nanofluids' flow: An optimal thermal application. <i>Energy Science and Engineering</i> , 2022, 10, 4286-4303.	3.9	9
139	Dynamics of Stochastic Zika Virus with Treatment Class in Human Population via Spectral Method. <i>Symmetry</i> , 2022, 14, 2137.	2.3	9
140	Electromagnetic radiation and convective slippery stipulation influence in viscous second grade nanofluid through penetrable material. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 0, , .	1.7	9
141	Impact of Thermal Radiation on MHD GO-Fe ₂ O ₄ /EG Flow and Heat Transfer over a Moving Surface. <i>Symmetry</i> , 2023, 15, 584.	2.3	9
142	Thermal case examination of inconstant heat source (sink) on viscous radiative Sutterby nanofluid flowing via a penetrable rotative cone. <i>Case Studies in Thermal Engineering</i> , 2023, 48, 103102.	5.8	9
143	Insights into the thermal attributes of sodium alginate (NaCHO) based nanofluids in a three-dimensional rotating frame: A comparative case study. <i>Case Studies in Thermal Engineering</i> , 2023, 49, 103211.	5.8	9
144	Error analysis of zirconium and zinc oxides/kerosene oil-based hybrid nanofluid flow between rotating disks: An innovative case study. <i>Case Studies in Thermal Engineering</i> , 2023, 51, 103549.	5.8	9

#	ARTICLE	IF	CITATIONS
145	Steady Magnetohydrodynamic Micropolar Fluid Flow and Heat and Mass Transfer in Permeable Channel with Thermal Radiation. <i>Coatings</i> , 2022, 12, 11.	2.7	8
146	MHD Pulsatile Flow of Blood-Based Silver and Gold Nanoparticles between Two Concentric Cylinders. <i>Symmetry</i> , 2022, 14, 2254.	2.3	8
147	Finite Element Methodology of Hybridity Nanofluid Flowing in Diverse Wavy Sides of Penetrable Cylindrical Chamber under a Parallel Magnetic Field with Entropy Generation Analysis. <i>Micromachines</i> , 2022, 13, 1905.	3.0	8
148	Influences of Fourier and Fick's relations in stagnation point flow of Reiner-Philippoff fluid containing oxytactic-microorganisms with variable molecular diffusivity. <i>Waves in Random and Complex Media</i> , 0, , 1-22.	2.7	8
149	Transient conditions effects on electromagnetic Casson fluid flow via stretching surface: System thermal case elaboration. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2023, 84, 539-555.	0.9	8
150	Thermal examination of chemical interaction and thermophoretic diffusion of Williamson fluid flow across Riga Plate surface with nonlinearity radiation flux. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-15.	2.1	8
151	Velocity and thermal slip impact towards GO-MoS ₂ /C ₃ H ₈ O ₃ hybridity nanofluid flowing via a moving Riga plate. <i>Ain Shams Engineering Journal</i> , 2024, 15, 102648.	6.6	8
152	Impact of surface temperature and convective boundary conditions on a Nanofluid flow over a radially stretched Riga plate. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 942-952.	2.5	7
153	Computational examination of Jeffrey nanofluid through a stretchable surface employing Tiwari and Das model. <i>Open Physics</i> , 2021, 19, 897-911.	1.7	7
154	The solution of twelfth order boundary value problems by the improved residual power series method: new approach. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 64-74.	3.4	7
155	Computational Analysis of Viscoplastic Nanofluid Blending by a Newly Modified Anchorage Impeller within a Stirred Container. <i>Symmetry</i> , 2022, 14, 2279.	2.3	7
156	Using oxy-hydrogen gas to enhance efficacy and reduce emissions of diesel engine. <i>Ain Shams Engineering Journal</i> , 2023, 14, 102217.	6.6	7
157	Thermal analysis of radiative and electromagnetic flowing of hybridity nanofluid via Darcy's Forchheimer porous material with slippage constraints. <i>Energy and Environment</i> , 0, , .	4.5	7
158	Inclined magnetic force impact on cross nanoliquid flowing with widening shallow and heat generating by using artificial neural network (ANN). <i>Case Studies in Thermal Engineering</i> , 2023, 52, 103690.	5.8	7
159	Heat generation (absorption) in 3D bioconvection flow of Casson nanofluid via a convective heated stretchable surface. <i>Journal of Molecular Liquids</i> , 2023, 392, 123503.	5.0	7
160	Utilization of modified fluxes on thermal and mass transportation in Williamson material. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781402210758.	1.6	6
161	Quasi-Linearization Analysis for Entropy Generation in MHD Mixed-Convection Flow of Casson Nanofluid over Nonlinear Stretching Sheet with Arrhenius Activation Energy. <i>Symmetry</i> , 2022, 14, 1940.	2.3	5
162	Flow inspection of micropolar nanofluids with motile gyrotactic microorganisms across symmetric channel in porous medium by quasi-linearization technique. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2024, 85, 58-75.	0.9	5

#	ARTICLE	IF	CITATIONS
163	Computational treatment and thermic case study of entropy resulting from nanofluid flow of convergent/divergent channel by applying the lorentz force. Case Studies in Thermal Engineering, 2024, 54, 104034.	5.8	5
164	Thermal cooling process by nanofluid flowing near stagnating point of expanding surface under induced magnetism force: A computational case study. Case Studies in Thermal Engineering, 2022, 36, 102190.	5.8	4
165	A Numerical Approach for Analyzing The Electromagneto-hydrodynamic Flow Through a Rotating Microchannel. Arabian Journal for Science and Engineering, 2023, 48, 3765-3781.	3.1	4
166	Unsteady Electro-Hydrodynamic Stagnating Point Flow of Hybridized Nanofluid via a Convectively Heated Enlarging (Dwindling) Surface with Velocity Slippage and Heat Generation. Symmetry, 2022, 14, 2136.	2.3	4
167	Application of the successive over relaxation method for analyzing the dusty flow over a surface subject to convective boundary condition. Ain Shams Engineering Journal, 2023, 14, 102044.	6.6	4
168	Radiative and viscid dissipative flowing influences on heat and mass transfer in MHD Casson fluid employing Galerkin finite element style. International Journal of Modern Physics B, 2024, 38, .	1.9	4
169	Thermal energy analysis of multi-walled carbon nanotubes- Fe_3O_4/H_2O flow over non-uniformed surface with Darcy-Forchheimer model. Energy and Environment, 0, , .	4.5	4
170	Numerical investigation of generalized perturbed Zakharov-Kuznetsov equation of fractional order in dusty plasma. Waves in Random and Complex Media, 0, , 1-20.	2.7	3
171	On Chemical Invariants of Semitotal-Point Graph and Its Line Structure of the Acyclic Kragujevac Network: A Novel Mathematical Analysis. Journal of Chemistry, 2022, 2022, 1-20.	2.0	3
172	Effectiveness of non-uniform heat generation (sinking) and thermal characterization of Carreau fluid flowing across nonlinear elongating cylinder: Convergence analysis aspect. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 0, , .	1.7	3
173	Perturbation methodology for electromagnetic radiative fluxing of chemical reactive Casson fluid flow under heat source (sink) effectiveness. International Journal of Modern Physics B, 2023, 37, .	1.9	3
174	Case study of heat generation/absorption and activation energy on MHD hybrid nanofluid (GO-MoS ₂ /water) flow owing to a rotating disk. Case Studies in Thermal Engineering, 2023, 51, 103632.	5.8	3
175	Computational study of magnetized and dual stratified effects on Non-Darcy Casson nanofluid flow: An activation energy analysis. Case Studies in Thermal Engineering, 2024, 53, 103804.	5.8	3
176	Thermal radiative and Hall current effects on magneto-natural convective flow of dusty fluid: Numerical Runge-Kutta-Fehlberg technique. Numerical Heat Transfer, Part B: Fundamentals, 0, , 1-23.	0.9	3
177	Heat generating impact on radiative nanofluid flow via exponential expanding surface with convective conditions: Mesh independence examination. Numerical Heat Transfer; Part A: Applications, 0, , 1-24.	2.1	3
178	Melting and heat generating influences on radiative flow of two-phase magneto-Williamson nanofluid via stretchable surface with slippage velocity and activation energy. Numerical Heat Transfer; Part A: Applications, 0, , 1-23.	2.1	3
179	Stratified heat transfer of magneto-tangent hyperbolic bio-nanofluid flow with gyrotactic microorganisms: Keller-Box solution technique. Open Physics, 2021, 19, 568-582.	1.7	2
180	Galerkin Finite Element Process for Entropy Production and Thermal Evaluation of Third-Grade Fluid Flow: A Thermal Case Study. Applied Sciences (Switzerland), 2022, 12, 9647.	2.6	2

#	ARTICLE	IF	CITATIONS
181	A Self-Similar Approach to Study Nanofluid Flow Driven by a Stretching Curved Sheet. <i>Symmetry</i> , 2022, 14, 1991.	2.3	2
182	Thermal scrutinization of magnetohydrodynamics CuO engine oil nanofluid flow across a horizontal surface via Koo-Kleinstreuer-Li modeling: A thermal case study. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2023, 237, 1935-1948.	2.5	2
183	Analysis and simulation of arbitrary order shallow water and Drinfeld-Sokolov-Wilson equations: Natural transform decomposition method. <i>International Journal of Modern Physics B</i> , 2024, 38, .	1.9	2
184	Accurate solution of unsteadiness natural convective Maxwell nanofluid based-mineral oil flow via oscillation vertical surface: Thermic case specification. <i>Case Studies in Thermal Engineering</i> , 2023, 46, 103021.	5.8	2
185	Assessment of diesel engine thermo-characteristics working with hybrid fuel blends. <i>Numerical Heat Transfer; Part A: Applications</i> , 2023, 84, 659-674.	2.1	2
186	Darcy-Forchheimer micropolar flow of (Cu, Al ₂ O ₃ , and TiO ₂) nanomaterials-based-ethylene glycol: Successive over relaxation method. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-19.	2.1	2
187	Micro-structured fluid within a channel under static and oscillatory pressure gradients: A novel Darcy-Forchheimer flow investigation. <i>Engineering Science and Technology, an International Journal</i> , 2023, 47, 101544.	3.3	2
188	The effect of biogas and dimethyl ether on the thermal characteristics of a dual-fuel diesel engine: A numerical study. <i>Biofuels, Bioproducts and Biorefining</i> , 2024, 18, 125-138.	3.7	2
189	Convective flow generated in viscous liquid by isothermal and isoconcentration distribution in crown enclosure with novel aspects of inclined magnetic field. <i>International Journal of Modelling and Simulation</i> , 0, , 1-14.	3.4	2
190	Frequency Analysis for Functionally Graded Material Cylindrical Shells: A Significant Case Study. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-10.	1.2	1
191	Imposed magnetic field impact on vortex generation in the laminar nanofluid flow: A computational approach. <i>International Communications in Heat and Mass Transfer</i> , 2022, 139, 106469.	5.7	1
192	Computational finite element analysis of electromagnetic radiative nanofluid containing motile germs with chemical reactive process. <i>International Journal of Modern Physics B</i> , 2024, 38, .	1.9	1
193	Irreversibility analysis of hydromagnetic nanofluid flow past a horizontal surface via Koo-Kleinstreuer-Li (KKL) model. <i>Heliyon</i> , 2023, 9, e17668.	3.3	1
194	Relaxation analysis and entropy simulation of triple diffusive slip effect on magnetically driven Casson fluid flow. <i>International Journal of Modelling and Simulation</i> , 0, , 1-18.	3.4	1
195	Thermodynamic case study of boundary layer viscous nanofluid flow via a riga surface by means of finite difference method. <i>Case Studies in Thermal Engineering</i> , 2024, 55, 104157.	5.8	1
196	Williamson MHD nanofluid flow via a porous exponentially stretching sheet with bioconvective fluxes. <i>Case Studies in Thermal Engineering</i> , 2024, 59, 104453.	5.8	1
197	Investigating radiative heat transfer, varied wall thickness, and slip effects on Casson nanofluid flow over a stretched sheet with heat source. <i>International Journal of Modelling and Simulation</i> , 0, , 1-17.	3.4	1
198	Numerical simulation and entropy optimization of hybrid nanofluid flow in an inclined wavy enclosure subjected to thermal radiation. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 0, , .	0.5	1

#	ARTICLE	IF	CITATIONS
199	Exploration of radiative heat energy on KKL model micropolar nanofluid past a permeable moving surface. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 0, , .	1.7	0
200	Numerical inspection of (3 $\hat{\epsilon}$ + $\hat{\epsilon}$ 1)- perturbed Zakharov-Kuznetsov equation via fractional variational iteration method with Caputo fractional derivative. Numerical Heat Transfer, Part B: Fundamentals, 0, , 1-16.	0.9	0
201	Thermal convective transport energy and environmental applications for magnetised flow with parallel (non-parallel) walls movement simulation of staggered cavity. Energy and Environment, 0, , .	4.5	0
202	Impact of non-linear heat source and magnetic field on the Carreau nanofluid Marangoni convective flow – a numerical investigation. International Journal of Modelling and Simulation, 0, , 1-15.	3.4	0
203	Application of constant proportional caputo (CPC) fractional derivative for natural convective casson nanofluid flow on an infinite cylinder. Numerical Heat Transfer, Part B: Fundamentals, 0, , 1-21.	0.9	0
204	Analyzing fractional effects on solutions of the generalized perturbed Zakharov-Kuznetsov equation using a residual series method with Caputo derivatives. International Journal of Modelling and Simulation, 0, , 1-18.	3.4	0
205	A thermal energy analysis of binary (<i>Go-Co/H₂O</i>) and ternary (<i>Go-Co-Zro₂/H₂O</i>) nanofluids based on characterization and thermal performance. Energy and Environment, 0, , .	4.5	0
206	Heat and mass transfer analysis of Casson-based hybrid nanofluid flow in the presence of an aligned magnetic field: An application toward mechanical engineering. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 0, , .	0.5	0
207	Hydraulic and Hydroclimatic impact on dam seepage of civil and structural mechanisms with application of deep learning models. Results in Engineering, 2024, 23, 102420.	5.2	0
208	Studying the effect of various types of chemical reactions on hydrodynamic properties of dispersion and peristaltic flow of couple-stress fluid: Comprehensive examination. Journal of Molecular Liquids, 2024, 409, 125542.	5.0	0
209	Exploring heat transfer in magnetized binary nanofluid flows with gyrotactic microorganisms through bioconvection analysis. Numerical Heat Transfer; Part A: Applications, 0, , 1-22.	2.1	0
210	Effects of time-dependent and radiation on a tri-hybrid nanofluid flowing on stretchable/shrinkable cylinders with irregular heat generation/absorption using Ohmic heating. Case Studies in Thermal Engineering, 2024, 62, 105167.	5.8	0