Gireesha Bj

List of Publications by Year
in descending order

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54 papers	1,346 citations	394421 19 h-index	395702 33 g-index
55 all docs	55 docs citations	55 times ranked	736 citing authors

#	Article	IF	Citations
1	Thermal stresses and efficiency analysis of a radial porous fin with radiation and variable thermal conductivity and internal heat generation. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4751-4762.	3.6	8
2	Repercussion of Hall current, no-slip, and Newton boundary condition on the thermal energy of the Carreau fluid in a microchannel. International Journal of Ambient Energy, 2022, 43, 4789-4800.	2.5	9
3	Numerical treatment for Casson liquid flow in a microchannel due to porous medium: A hybrid nanoparticles aspects. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 1293-1303.	2.1	2
4	Performance of water, ethylene glycol, engine oil conveying SWCNT-MWCNT nanoparticles over a cylindrical fin subject to magnetic field and heat generation. International Journal of Modelling and Simulation, 2022, 42, 936-945.	3.3	18
5	Scrutinization of thermodynamic second law for the steady flow of couple stress nanofluid in an inclined microchannel by varying thermal conductivity. Heat Transfer, 2022, 51, 3636-3655.	3.0	2
6	Irreversibility analysis of micropolar nanofluid flow using Darcyâ€“Forchheimer rule in an inclined microchannel with multiple slip effects. Heat Transfer, 2022, 51, 5834-5856.	3.0	10
7	Time-Reliant Flow of Casson Nanofluid with Gyrotactic Microbes through the Contracting/Dilating Walls of the Microchannel Impelled by Chemical Reactions. Brazilian Journal of Physics, 2022, 52, .	1.4	2
8	Thermal and entropy generation of non-Newtonian magneto-Carreau fluid flow in microchannel. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2717-2727.	3.6	31
9	Irreversibility analysis of nanofluid flow in a vertical microchannel with the influence of particle shape. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 312-320.	2.5	5
10	Intrinsic irreversibility of Al₂O₃â€“H₂O nanofluid Poiseuille flow with variable viscosity and convective cooling. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 2042-2063.	2.8	18
11	Exploration of irreversibility and thermal motion of a nanoliquid with the Newton boundary condition by using the Darcyâ€“Forchheimer rule. Heat Transfer, 2021, 50, 3176-3195.	3.0	6
12	Magnetohydrodynamics Eyringâ€“Powell fluid in a vertical porous microchannel with convective boundary condition subjected to entropy generation. Heat Transfer, 2021, 50, 2525-2542.	3.0	4
13	Magnetohydrodynamic flow of Williamson fluid in a microchannel for both horizontal and inclined loci with wall shear properties. Heat Transfer, 2021, 50, 1428-1442.	3.0	8
14	Significance of buoyancy and Lorentz forces on water-conveying iron(III) oxide and silver nanoparticles in a rectangular cavity mounted with two heated fins: heat transfer analysis. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2369.	3.6	52
15	Entropy scrutiny of couple stress nanoliquid flow with slip and convective conditions in an upright microchannel. Physica Scripta, 2021, 96, 045302.	2.5	8
16	Significance of increasing Lorentz force and buoyancy force on the dynamics of water conveying SWCNT and MWCNT nanoparticles through a vertical microchannel. Physica Scripta, 2021, 96, 085209.	2.5	2
17	Compressed Flow of Hybridized Nanofluid Entwined Between Two Rotating Plates Exposed to Radiation. Journal of Nanofluids, 2021, 10, 186-199.	2.7	6
18	Chemically reactive and radiative flow of ferroâ€aluminum (AA7075) hybrid nanofluid past a stretching cylinder. Heat Transfer, 2021, 50, 7406.	3.0	2

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19	Analysis of second law on Eyringâ€Powell nanoliquid flow in a vertical microchannel considering magnetic field and convective boundary. Heat Transfer, 2021, 50, 313-328.	3.0	6
20	Investigation of irreversibilities in a microchannel by differing viscosity, including buoyancy forces and suction/injection. Heat Transfer, 2021, 50, 3620-3640.	3.0	6
21	The Impact of Cattaneoâ€“Christov Double Diffusion on Oldroyd-B Fluid Flow over a Stretching Sheet with Thermophoretic Particle Deposition and Relaxation Chemical Reaction. Inventions, 2021, 6, 95.	2.5	21
22	Influence of Thermophoretic Particle Deposition on the 3D Flow of Sodium Alginate-Based Casson Nanofluid over a Stretching Sheet. Micromachines, 2021, 12, 1474.	2.9	39
23	Entropy generation analysis of nanoliquid flow through microchannel considering heat source and different shapes of nanoparticle. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1457-1477.	2.8	13
24	Impact of nonlinear thermal radiation on magnetohydrodynamic three dimensional boundary layer flow of Jeffrey nanofluid over a nonlinearly permeable stretching sheet. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124051.	2.6	51
25	Entropy generation analysis of multi-walled carbon nanotube dispersed nanoliquid in the presence of heat source through a vertical microchannel. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 5063-5085.	2.8	8
26	Second law analysis on Hall effect of natural convection flow through vertical channel in the presence of uniform heat source/sink. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4403-4423.	2.8	10
27	Performance of second law in Carreau fluid flow by an inclined microchannel with radiative heated convective condition. International Communications in Heat and Mass Transfer, 2020, 117, 104761.	5.6	41
28	Finite element analysis of micropolar nanofluid flow through an inclined microchannel with thermal radiation. Multidiscipline Modeling in Materials and Structures, 2020, 16, 1521-1538.	1.3	19
29	Second law analysis of MHD natural convection slip flow of Casson fluid through an inclined microchannel. Multidiscipline Modeling in Materials and Structures, 2020, 16, 1435-1455.	1.3	15
30	MHD micropolar nanofluid flow through an inclined channel with entropy generation subjected to radiative heat flux, viscous dissipation and multiple slip effects. Multidiscipline Modeling in Materials and Structures, 2020, 16, 1475-1496.	1.3	22
31	Impact of Hall and Ion effects on MHD couple stress nanofluid flow through an inclined channel subjected to convective, hydraulic slip, heat generation, and thermal radiation. Heat Transfer, 2020, 49, 3314-3333.	3.0	13
32	Thermal exploration of radial porous fin fully wetted with SWCNTs and MWCNTs along with temperature-dependent internal heat generation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 4945-4952.	2.1	10
33	Investigation of Ti6Al4V and AA7075 alloy embedded nanofluid flow over longitudinal porous fin in the presence of internal heat generation and convective condition. Communications in Theoretical Physics, 2020, 72, 025004.	2.5	35
34	Second law analysis of Powellâ€“Eyring fluid flow through an inclined microchannel with thermal radiation. Physica Scripta, 2019, 94, 125205.	2.5	27
35	Heat transfer and entropy generation analysis of non-Newtonian flu flow through vertical microchannel with convective boundary condition. Applied Mathematics and Mechanics (English) Tj ETQq1 1 0.784314 rgBT /Overloc		
36	Timeâ€dependent flow due to noncoaxial rotation of an infinite vertical surface subjected to an exponential spaceâ€dependent heat source: An exact analysis. Heat Transfer - Asian Research, 2019, 48, 3162-3185.	2.8	6

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37	Entropy generation and heat transport analysis of Casson fluid flow with viscous and Joule heating in an inclined porous microchannel. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2019, 233, 1173-1184.	2.5	40
38	MHD flow of SWCNT and MWCNT nanoliquids past a rotating stretchable disk with thermal and exponential space dependent heat source. Physica Scripta, 2019, 94, 085214.	2.5	93
39	Entropy generation analysis of magneto-nanoliquids embedded with aluminium and titanium alloy nanoparticles in microchannel with partial slips and convective conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3638-3658.	2.8	67
40	Thermodynamics Analysis of a Casson Nanofluid Flow Through a Porous Microchannel in the Presence of Hydrodynamic Slip: A Model of Solar Radiation. Journal of Nanofluids, 2019, 8, 63-72.	2.7	26
41	Nonlinear Gravitational and Radiation Aspects in Nanoliquid with Exponential Space Dependent Heat Source and Variable Viscosity. Microgravity Science and Technology, 2018, 30, 257-264.	1.4	40
42	Triple diffusive flow of nanofluid with buoyancy forces and nonlinear thermal radiation over a horizontal plate. Heat Transfer - Asian Research, 2018, 47, 957-973.	2.8	16
43	Brinkman-Forchheimer flow of SWCNT and MWCNT magneto-nanoliquids in a microchannel with multiple slips and Joule heating aspects. Multidiscipline Modeling in Materials and Structures, 2018, 14, 769-786.	1.3	38
44	Nonlinear three-dimensional stretched flow of an Oldroyd-B fluid with convective condition, thermal radiation, and mixed convection. Applied Mathematics and Mechanics (English Edition), 2017, 38, 969-980.	3.6	53
45	MHD three dimensional double diffusive flow of Casson nanofluid with buoyancy forces and nonlinear thermal radiation over a stretching surface. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2858-2878.	2.8	57
46	Analysis of Heat Transfer Phenomenon in Magnetohydrodynamic Casson Fluid Flow Through Cattaneoâ€“Christov Heat Diffusion Theory. Communications in Theoretical Physics, 2017, 68, 91.	2.5	20
47	Marangoni convective MHD flow of SWCNT and MWCNT nanoliquids due to a disk with solar radiation and irregular heat source. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 94, 25-30.	2.7	113
48	Combined Effect of Joule Heating and Viscous Dissipation on MHD Three Dimensional Flow of a Jeffrey Nanofluid. Journal of Nanofluids, 2017, 6, 300-310.	2.7	22
49	Effect of chemical reaction on MHD boundary layer flow and melting heat transfer of Williamson nanofluid in porous medium. Engineering Science and Technology, an International Journal, 2016, 19, 53-61.	3.2	159
50	Third grade fluid flow in a microchannel crammed with permeable media liable to non-linear thermal radiation. International Journal of Ambient Energy, 0, , 1-10.	2.5	7
51	Entropy generation analysis of radiative Williamson fluid flow in an inclined microchannel with multiple slip and convective heating boundary effects. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110498.	2.5	8
52	Effect of NP shapes on Fe₃O₄ â€“ Ag/kerosene and Fe₃O₄ â€“ Ag/water hybrid nanofluid flow in suction/injection process with nonlinear-thermal-radiation and slip condition; Hamilton and Crosser's model. Waves in Random and Complex Media, 0, , 1-22.	2.7	16
53	Planar Couette flow of power law nanofluid with chemical reaction, nanoparticle injection and variable thermal conductivity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110590.	2.1	3
54	Second law analysis of MHD Carreau fluid flow through a microchannel with thermal radiation. Waves in Random and Complex Media, 0, , 1-25.	2.7	7