Ganeshappa Sowmya

List of Publications by Year
in descending order

41 papers	801 citations	623734 14 h-index	642732 23 g-index
43 all docs	43 docs citations	43 times ranked	380 citing authors

#	Article	IF	Citations
1	Flow of hybrid nanofluid across a permeable longitudinal moving fin along with thermal radiation and natural convection. Computer Methods and Programs in Biomedicine, 2020, 185, 105166.	4.7	114
2	Analysis of thermal behavior of a porous fin fully wetted with nanofluids: convection and radiation. Journal of Molecular Liquids, 2020, 307, 112920.	4.9	59
3	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
4	LSM and DTM-Pade approximation for the combined impacts of convective and radiative heat transfer on an inclined porous longitudinal fin. Case Studies in Thermal Engineering, 2022, 35, 101846.	5.7	38
5	Investigation of <i>Ti6Al4V</i> and <i>AA</i>7075 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
6	Shape effect of nanoparticles on MHD nanofluid flow over a stretching sheet in the presence of heat source/sink with entropy generation. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 1643-1663.	2.8	34
7	Analysis of Transient Thermal Distribution in a Convectiveâ€"Radiative Moving Rod Using Two-Dimensional Differential Transform Method with Multivariate Pade Approximant. Symmetry, 2021, 13, 1793.	2.2	34
8	Thermal distribution through a moving longitudinal trapezoidal fin with variable temperature-dependent thermal properties using DTM-Pade approximant. Case Studies in Thermal Engineering, 2021, 28, 101697.	5.7	30
9	Scrutinization of different shaped nanoparticle of molybdenum disulfide suspended nanofluid flow over a radial porous fin. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 3685-3699.	2.8	29
10	An unsteady thermal investigation of a wetted longitudinal porous fin of different profiles. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2463-2474.	3.6	25
11	Exploration of Temperature Distribution through a Longitudinal Rectangular Fin with Linear and Exponential Temperature-Dependent Thermal Conductivity Using DTM-Pade Approximant. Symmetry, 2022, 14, 690.	2.2	22
12	Heat transfer analysis of nanofluid flow in a channel with non-parallel walls. Journal of Mechanical Science and Technology, 2021, 35, 171-177.	1.5	18
13	Heat transfer analysis of an inclined porous fin using Differential Transform Method. International Journal of Ambient Energy, 2022, 43, 3189-3195.	2.5	17
14	Effect of electromagnetic field on the thermal performance of longitudinal trapezoidal porous fin using DTMâ€"Pade approximant. Heat Transfer, 2022, 51, 3313-3333.	3.0	17
15	Thermal stress and temperature distribution of an annular fin with variable temperature-dependent thermal properties and magnetic field using DTM-Pade approximant. Waves in Random and Complex Media, 0, , 1-29.	2.7	17
16	Temperature distribution analysis in a fully wet moving radial porous fin by finite element method. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 453-468.	2.8	15
17	Thermal performance of fully wet longitudinal porous fin with temperature-dependent thermal conductivity, surface emissivity and heat transfer coefficient. Multidiscipline Modeling in Materials and Structures, 2019, 16, 749-764.	1.3	15
18	Analytical solution for temperature equation of a fin problem with variable temperature-dependent thermal properties: Application of LSM and DTM-Pade approximant. Chemical Physics Letters, 2022, 793, 139409.	2.6	15

#	Article	IF	Citations
19	Exploration of transient heat transfer through a moving plate with exponentially temperature-dependent thermal properties. Waves in Random and Complex Media, 0, , 1-19.	2.7	15
20	Consequence of exponential heat generation on non-Darcy-Forchheimer flow of water based carbon nanotubes driven by a curved stretching sheet. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1723-1734.	3.6	14
21	Convective-radiative thermal investigation of a porous dovetail fin using spectral collocation method. Ain Shams Engineering Journal, 2023, 14, 101811.	6.1	14
22	Analysis of a fully wetted moving fin with temperatureâ€dependent internal heat generation using the finite element method. Heat Transfer, 2020, 49, 1939-1954.	3.0	13
23	Analysis of thermal behavior of moving longitudinal porous fin wetted with waterâ€based SWCNTs and MWCNTs. Heat Transfer, 2020, 49, 2044-2058.	3.0	12
24	Analysis of heat transfer through different profiled longitudinal porous fin by differential transformation method. Heat Transfer, 2022, 51, 2165-2180.	3.0	12
25	Thermal investigation of fully wet longitudinal porous fin of functionally graded material. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 5087-5101.	2.8	11
26	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
27	Effects of stretching/shrinking on the thermal performance of a fully wetted convective-radiative longitudinal fin of exponential profile. Applied Mathematics and Mechanics (English Edition), 2022, 43, 389-402.	3.6	10
28	Hybrid nanoliquid flow through a microchannel with particle shape factor, slip and convective regime. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 3388-3410.	2.8	10
29	Heat transfer in a radial porous fin in the presence of magnetic field: a numerical study. International Journal of Ambient Energy, 2022, 43, 3402-3409.	2.5	8
30	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
31	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
32	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
33	Impact of Hall effect, nonlinear radiation and heat source on MHD Couetteâ€“Poiseuille flow of nanoliquid through a rotating channel. Multidiscipline Modeling in Materials and Structures, 2020, 16, 1457-1473.	1.3	7
34	The flow of fluid-particle suspension between two rotating stretchable disks with the effect of the external magnetic field. Physica Scripta, 2021, 96, 015214.	2.5	7
35	Nanoparticle shape effect on the thermal behaviour of moving longitudinal porous fin. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2020, 234, 115-121.	0.6	6
36	Effect of nonlinear radiation on flow and heat transfer of dusty fluid over a stretching cylinder with Cattaneoâ€“Christov heat flux. International Journal of Modern Physics C, 2021, 32, .	1.7	6

#	Article	IF	Citations
37	Slip and radiative flow of shape-dependent dusty nanofluid over a melting stretching sheet. International Journal of Ambient Energy, 2022, 43, 4120-4131.	2.5	3
38	Inferring optimal proportion for efficient heat transfer and depleted entropy using MgO-Ag/water hybrid nanofluid over convectively heated stretching sheet embedded in a porous medium. Waves in Random and Complex Media, 0, , 1-25.	2.7	3
39	Impact of newtonian heating on dusty nanofluid flow over a riga plate embedded in porous medium. Waves in Random and Complex Media, 0, , 1-24.	2.7	2
40	Numerical investigation of ferromagnetic liquid film flow over an unsteady stretching surface in the presence of radiation and aligned magnetic field. Heat Transfer, 2022, 51, 4268-4285.	3.0	0
41	Heat transfer enhancement and entropy generation minimization using CNTs suspended nanofluid upon a convectively warmed moving wedge: An optimal case study. Heat Transfer, 0, , .	3.0	0