Naveen Kumar R

List of Publications by Year
in descending order

58 papers	3,303 citations	172457 29 h-index	206112 48 g-index
60 all docs	60 docs citations	60 times ranked	545 citing authors

#	Article	IF	Citations
1	Impact of Binary Chemical Reaction and Activation Energy on Heat and Mass Transfer of Marangoni Driven Boundary Layer Flow of a Non-Newtonian Nanofluid. Processes, 2021, 9, 702.	2.8	186
2	Numerical simulation of AA7072-AA7075/water-based hybrid nanofluid flow over a curved stretching sheet with Newtonian heating: A non-Fourier heat flux model approach. Journal of Molecular Liquids, 2021, 335, 116103.	4.9	182
3	Effect of Magnetohydrodynamics on Heat Transfer Behaviour of a Non-Newtonian Fluid Flow over a Stretching Sheet under Local Thermal Non-Equilibrium Condition. Fluids, 2021, 6, 264.	1.7	121
4	Radiative heat transfer of second grade nanofluid flow past a porous flat surface: a single-phase mathematical model. Physica Scripta, 2021, 96, 064006.	2.5	114
5	Exploring magnetic dipole contribution on ferromagnetic nanofluid flow over a stretching sheet: An application of Stefan blowing. Journal of Molecular Liquids, 2021, 335, 116215.	4.9	107
6	Impact of magnetic dipole on ferromagnetic hybrid nanofluid flow over a stretching cylinder. Physica Scripta, 2021, 96, 045215.	2.5	105
7	Modeling and theoretical investigation on Casson nanofluid flow over a curved stretching surface with the influence of magnetic field and chemical reaction. International Journal for Computational Methods in Engineering Science and Mechanics, 2022, 23, 12-19.	2.1	101
8	Thermophoretic particle deposition in time-dependent flow of hybrid nanofluid over rotating and vertically upward/ downward moving disk. Surfaces and Interfaces, 2021, 22, 100864.	3.0	100
9	Magnetohydrodynamic flow and heat transfer of a hybrid nanofluid over a rotating disk by considering Arrhenius energy. Communications in Theoretical Physics, 2021, 73, 045002.	2.5	97
10	Computational modelling of nanofluid flow over a curved stretching sheet using Kooâ€“Kleinstreuer and Li (KKL) correlation and modified Fourier heat flux model. Chaos, Solitons and Fractals, 2021, 145, 110774.	5.1	92
11	Numerical study of bio-convection flow of magneto-cross nanofluid containing gyrotactic microorganisms with activation energy. Scientific Reports, 2021, 11, 16030.	3.3	88
12	Unsteady mixed convection flow of magneto-Williamson nanofluid due to stretched cylinder with significant non-uniform heat source/sink features. AEJ - Alexandria Engineering Journal, 2022, 61, 195-206.	6.4	87
13			

#	Article	IF	Citations
19	Exploring the impact of magnetic dipole on the radiative nanofluid flow over a stretching sheet by means of KKL model. Pramana - Journal of Physics, 2021, 95, 1.	1.8	71
20	Non-Newtonian hybrid nanofluid flow over vertically upward/downward moving rotating disk in a Darcyâ€“Forchheimer porous medium. European Physical Journal: Special Topics, 2021, 230, 1227-1237.	2.6	69
21	Two-phase flow of dusty fluid with suspended hybrid nanoparticles over a stretching cylinder with modified Fourier heat flux. SN Applied Sciences, 2021, 3, 1.	2.9	63
22	Comparative analysis of (Zinc ferrite, Nickel Zinc ferrite) hybrid nanofluids slip flow with entropy generation. Modern Physics Letters B, 2021, 35, 2150342.	1.9	59
23	Two-Phase Darcy-Forchheimer Flow of Dusty Hybrid Nanofluid with Viscous Dissipation Over a Cylinder. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	57
24	Solar energy aspects of gyrotactic mixed bioconvection flow of nanofluid past a vertical thin moving needle influenced by variable Prandtl number. Chaos, Solitons and Fractals, 2021, 151, 111244.	5.1	56
25	Magnetized flow of sutterby nanofluid through cattaneo-christov theory of heat diffusion and stefan blowing condition. Applied Nanoscience (Switzerland), 2023, 13, 585-594.	3.1	55
26	Hybrid nanofluid flow over a stretched cylinder with the impact of homogeneousâ€“heterogeneous reactions and Cattaneoâ€“Christov heat flux: Series solution and numerical simulation. Heat Transfer, 2021, 50, 3800-3821.	3.0	54
27	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	53
28	Physical impact of thermo-diffusion and diffusion-thermo on Marangoni convective flow of hybrid nanofluid (MnZiFe₂O₄â€“NiZnFe₂O₄â€“H₂O) with nonlinear heat source/sink and radiative heat flux. Modern Physics Letters B, 2021, 35, 2141006.	1.9	52
29	Impact of thermophoretic particle deposition on heat and mass transfer across the dynamics of Casson fluid flow over a moving thin needle. Physica Scripta, 2021, 96, 075210.	2.5	51
30	Impact of Hall current and homogenousâ€“heterogenous reactions on MHD flow of GO-MoS₂/water (H₂O)-ethylene glycol (C₂H₆O₂) hybrid nanofluid past a vertical stretching surface. Waves in Random and Complex Media, 0, , 1-18.	2.7	48
31	Exploration of Arrhenius activation energy on hybrid nanofluid flow over a curved stretchable surface. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202100035.	1.6	44
32	Carbon nanotubes suspended dusty nanofluid flow over stretching porous rotating disk with non-uniform heat source/sink. International Journal for Computational Methods in Engineering Science and Mechanics, 2022, 23, 119-128.	2.1	42
33	KKL correlation for simulation of nanofluid flow over a stretching sheet considering magnetic dipole and chemical reaction. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000372.	1.6	41
34	Aspects of Uniform Horizontal Magnetic Field and Nanoparticle Aggregation in the Flow of Nanofluid with Melting Heat Transfer. Nanomaterials, 2022, 12, 1000.	4.1	40
35	Analysis of modified Fourier law and melting heat transfer in a flow involving carbon nanotubes. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1259-1268.	2.5	38
36	Impact of thermophoretic particle deposition on Glauert wall jet slip flow of nanofluid. Case Studies in Thermal Engineering, 2021, 28, 101404.	5.7	37

#	Article	IF	Citations
37	Significance of Stefan blowing effect on flow and heat transfer of Casson nanofluid over a moving thin needle. Communications in Theoretical Physics, 2021, 73, 095005.	2.5	36
38	Nonlinear mixed convective Williamson nanofluid flow with the suspension of gyrotactic microorganisms. International Journal of Modern Physics B, 2021, 35, 2150145.	2.0	33
39	Computational Investigation of Stefan Blowing Effect on Flow of Second-Grade Fluid Over a Curved Stretching Sheet. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	32
40	Numerical simulation of local thermal non-equilibrium effects on the flow and heat transfer of non-Newtonian Casson fluid in a porous media. Case Studies in Thermal Engineering, 2021, 28, 101483.	5.7	32
41	Dynamics of thermal Marangoni stagnation point flow in dusty Casson nanofluid. International Journal of Modelling and Simulation, 2022, 42, 707-715.	3.3	31
42	Impact of activation energy and gyrotactic microorganisms on flow of Casson hybrid nanofluid over a rotating moving disk. Heat Transfer, 2021, 50, 5380-5399.	3.0	28
43	Irreversibility analysis in micropolar fluid film along an incline porous substrate with slip effects. International Communications in Heat and Mass Transfer, 2021, 126, 105357.	5.6	28
44	Significance of Stefan Blowing and Convective Heat Transfer in Nanofluid Flow Over a Curved Stretching Sheet with Chemical Reaction. Journal of Nanofluids, 2021, 10, 285-291.	2.7	27
45	Convective Flow of Second Grade Fluid Over a Curved Stretching Sheet with Dufour and Soret Effects. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	1.6	26
46	Cattaneoâ€“Christov heat flux model for nanofluid flow over a curved stretching sheet: An application of Stefan blowing. Heat Transfer, 2022, 51, 4977-4991.	3.0	25
47	Comparative study of ferromagnetic hybrid (manganese zinc ferrite, nickle zinc ferrite) nanofluids with velocity slip and convective conditions. Physica Scripta, 2021, 96, 075203.	2.5	23
48	A three-dimensional flow of an Oldroyd-B liquid with magnetic field and radiation effects: An application of thermophoretic particle deposition. International Communications in Heat and Mass Transfer, 2022, 134, 106007.	5.6	23
49	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
50	Effect of thermal radiation on heat transfer in plane wall jet flow of Casson nanofluid with suction subject to a slip boundary condition. Waves in Random and Complex Media, 0, , 1-18.	2.7	20
51	New modeling and analytical solution of fourth grade (non-Newtonian) fluid by a stretchable magnetized Riga device. International Journal of Modern Physics C, 2022, 33, .	1.7	18
52	Evaluation of heat and mass transfer in ferromagnetic fluid flow over a stretching sheet with combined effects of thermophoretic particle deposition and magnetic dipole. Waves in Random and Complex Media, 0, , 1-19.	2.7	15
53	Numerical simulation of carbon nanotubes nanofluid flow over vertically moving disk with rotation. Partial Differential Equations in Applied Mathematics, 2021, 4, 100124.	2.4	13
54	Entropy generation on flow and heat transfer of a reactive MHD Sisko fluid through inclined walls with porous medium. International Journal of Ambient Energy, 2022, 43, 6307-6316.	2.5	12

#	Article	IF	Citations
55	Dynamics of thermosolutal Marangoni convection and nanoparticle aggregation effects on Oldroyd-B nanofluid past a porous boundary with homogeneous-heterogeneous catalytic reactions. Journal of the Indian Chemical Society, 2022, 99, 100458.	2.8	12
56	Blasius and Sakiadis flow of a Casson hybrid nanofluid over a moving plate. Waves in Random and Complex Media, 0, , 1-18.	2.7	11
57	Soret and Dufour effects on Oldroyd-B fluid flow under the influences of convective boundary condition with Stefan blowing effect. Indian Journal of Physics, 2022, 96, 3881-3888.	1.8	7
58	Theoretical analysis of SWCNT- MWCNT/H2O hybrid flow over an upward/downward moving rotating disk. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2021, 235, 97-106.	0.6	5