

Manoj Kumar Nayak

List of Publications by Year in descending order

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35
papers

1,197
citations

471371

17
h-index

454834

30
g-index

35
all docs

35
docs citations

35
times ranked

666
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy optimized MHD 3D nanomaterial of non-Newtonian fluid: A combined approach to good absorber of solar energy and intensification of heat transport. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 186, 105131.	2.6	140
2	Numerical simulation of hydrothermal features of Cu-H ₂ O nanofluid natural convection within a porous annulus considering diverse configurations of heater. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2109-2125.	2.0	121
3	Impact of Entropy Generation and Nonlinear Thermal Radiation on Darcy-Forchheimer Flow of MnFe ₂ O ₄ -Casson/Water Nanofluid due to a Rotating Disk: Application to Brain Dynamics. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5471-5490.	1.7	86
4	3D Bioconvective multiple slip flow of chemically reactive Casson nanofluid with gyrotactic microorganisms. <i>Heat Transfer - Asian Research</i> , 2020, 49, 135-153.	2.8	73
5	Chemical reaction effect on MHD viscoelastic fluid over a stretching sheet through porous medium. <i>Meccanica</i> , 2016, 51, 1699-1711.	1.2	71
6	Combined effects of slip and convective boundary condition on MHD 3D stretched flow of nanofluid through porous media inspired by non-linear thermal radiation. <i>Indian Journal of Physics</i> , 2018, 92, 1017-1028.	0.9	62
7	3D MHD Free Convective Stretched Flow of a Radiative Nanofluid Inspired by Variable Magnetic Field. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 1269-1282.	1.7	58
8	Magnetohydrodynamic flow and heat transfer impact on ZnO-SAE50 nanolubricant flow over an inclined rotating disk. <i>Journal of Central South University</i> , 2019, 26, 1146-1160.	1.2	49
9	Heat transfer on the cross flow of micropolar fluids over a thin needle moving in a parallel stream influenced by binary chemical reaction and Arrhenius activation energy. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	46
10	Entropy optimization for Darcy-Forchheimer electro-magneto-hydrodynamic slip flow of ferronanofluid due to stretching/shrinking rotating disk. <i>Waves in Random and Complex Media</i> , 0, , 1-33.	1.6	40
11	Effects of Thermal-Diffusion and Diffusion-Thermo on Oblique Stagnation Point Flow of Couple Stress Casson Fluid Over a Stretched Horizontal Riga Plate with Higher Order Chemical Reaction. <i>Journal of Nanofluids</i> , 2019, 8, 94-102.	1.4	40
12	Entropy optimization analysis on nonlinear thermal radiative electromagnetic Darcy-Forchheimer flow of SWCNT/MWCNT nanomaterials. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 399-418.	1.6	39
13	EMHD flow of non-Newtonian nanofluids over thin needle with Robinson's condition and Arrhenius pre-exponential factor law. <i>Physica Scripta</i> , 2020, 95, 115219.	1.2	39
14	Thermodynamic effect in Darcy-Forchheimer nanofluid flow of a single-wall carbon nanotube/multi-wall carbon nanotube suspension due to a stretching/shrinking rotating disk: Buongiorno two-phase model. <i>Journal of Engineering Mathematics</i> , 2020, 120, 43-65.	0.6	38
15	Heat transfer and buoyancy-driven convective MHD flow of nanofluids impinging over a thin needle moving in a parallel stream influenced by Prandtl number. <i>Heat Transfer</i> , 2020, 49, 655-672.	1.7	37
16	Effects of Homogeneous-Heterogeneous Reactions on Radiative NaCl-CNP Nanofluid Flow Past a Convectively Heated Vertical Riga Plate. <i>Journal of Nanofluids</i> , 2018, 7, 657-667.	1.4	33
17	Unsteady Radiative MHD Free Convective Flow and Mass Transfer of a Viscoelastic Fluid Past an Inclined Porous Plate. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 3029-3039.	1.1	24
18	Darcy-Forchheimer up/downflow of entropy optimized radiative nanofluids with second-order slip, nonuniform source/sink, and shape effects. <i>Heat Transfer</i> , 2022, 51, 2318-2342.	1.7	21

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19	Impact of the Cattaneo-Christov thermal and solutal diffusion models on the stagnation point slip flow of Walters' B nanofluid past an electromagnetic sheet. Heat Transfer - Asian Research, 2019, 48, 713-726.	2.8	17
20	3D MHD cross flow over an exponential stretching porous surface. Heat Transfer, 2020, 49, 1256-1280.	1.7	17
21	Entropy optimized Darcy-Forchheimer slip flow of Fe_3O_4/CH_2OH_2 nanofluid past a stretching/shrinking rotating disk. Heat Transfer, 2021, 50, 2454-2487.	1.7	17
22	Cross flow on transient double-diffusive natural convection in inclined porous trapezoidal enclosures. Heat Transfer, 2021, 50, 849-875.	1.7	14
23	Cattaneo-Christov double diffusion on micropolar magneto cross nanofluids with entropy generation. Indian Journal of Physics, 2022, 96, 193-208.	0.9	14
24	Influence of Cattaneo-Christov Heat Flux Model on Mixed Convection Flow of Third Grade Nanofluid over an Inclined Stretched Riga Plate. Defect and Diffusion Forum, 0, 387, 121-134.	0.4	13
25	Transient Rotational Flow of Radiative Nanofluids over an Impermeable Riga Plate with Variable Properties. Defect and Diffusion Forum, 0, 387, 640-652.	0.4	11
26	Influence of relaxation-retardation viscous dissipation on chemically reactive flow of Oldroyd-B nanofluid with hyperbolic boundary conditions. Heat Transfer, 2020, 49, 4945-4967.	1.7	11
27	Numerical simulation for entropy optimized nonlinear radiative flow of GO/Al_2O_3 magneto nanomaterials with auto catalysis chemical reaction. Numerical Methods for Partial Differential Equations, 2020, , .	2.0	9
28	MHD nonlinear radiative flow of Carreau nanofluid with variable chemical reaction: An approach to control global warming. Heat Transfer, 2021, 50, 542-563.	1.7	9
29	Entropy minimized MHD microrotations of Cross nanomaterials with cubic autocatalytic chemical reaction. Heat Transfer, 2022, 51, 490-533.	1.7	9
30	Transient Magneto-Squeezing Flow of NaCl-CNP Nanofluid over a Sensor Surface Inspired by Temperature Dependent Viscosity. Defect and Diffusion Forum, 0, 387, 600-614.	0.4	8
31	Assisting/opposing/forced convection flow on entropy-optimized MHD nanofluids with variable viscosity: Interfacial layer and shape effects. Heat Transfer, 2022, 51, 578-603.	1.7	8
32	Darcy-Forchheimer flow behavior and thermal inferences with SWCNT/MWCNT suspensions due to shrinking rotating disk*. Waves in Random and Complex Media, 0, , 1-29.	1.6	8
33	Flow and heat transfer over a thin needle immersed in a porous medium filled with an Al_2O_3 -water nanofluids using Buongiorno's two-phase model. International Journal of Ambient Energy, 2022, 43, 3652-3660.	1.4	6
34	Influence of non-uniform heat source/sink and variable viscosity on mixed convection flow of third grade nanofluid over an inclined stretched Riga plate. International Journal of Thermofluid Science and Technology, 2019, 6, .	0.3	6
35	BÃ¶rdewadt flow of non-Newtonian fluid with single-walled TiO_2 nanotubes suspensions. Heat Transfer, 2022, 51, 6742-6761.	1.7	3