# Manoj Kumar Nayak

List of Publications by Year
in descending order



| 35 | 1,197 | 471509 17 | 454955 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 35 | 35 | 35 | 666 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Flow and heat transfer over a thin needle immersed in a porous medium filled with an Al<sub>2</sub>O<sub>3</sub>-water nanofluids using Buongiornoâ€™s two-phase model. International Journal of Ambient Energy, 2022, 43, 3652-3660. | 2.5 | 6 |
| 2 | Cattaneoâ€“Christov double diffusion on micropolar magneto cross nanofluids with entropy generation. Indian Journal of Physics, 2022, 96, 193-208. | 1.8 | 14 |
| 3 | Assisting/opposing/forced convection flow on entropyâ€optimized MHD nanofluids with variable viscosity: Interfacial layer and shape effects. Heat Transfer, 2022, 51, 578-603. | 3.0 | 8 |
| 4 | Entropy minimized MHD microrotations of Cross nanomaterials with cubic autocatalytic chemical reaction. Heat Transfer, 2022, 51, 490-533. | 3.0 | 9 |
| 5 | Darcyâ€“Forchheimer up/downflow of entropy optimized radiative nanofluids with secondâ€order slip, nonuniform source/sink, and shape effects. Heat Transfer, 2022, 51, 2318-2342. | 3.0 | 21 |
| 6 | BÃ¶dewadt flow of nonâ€Newtonian fluid with singleâ€walled TiO<sub>2</sub> nanotubes suspensions. Heat Transfer, 2022, 51, 6742-6761. | 3.0 | 3 |
| 7 | MHD nonlinear radiative flow of Carreau nanofluid with variable chemical reaction: An approach to control global warming. Heat Transfer, 2021, 50, 542-563. | 3.0 | 9 |
| 8 | Entropy optimized Darcyâ€Forchheimer slip flow of Fe3O4â^'CH2OH2Ânanofluid past a stretching/shrinking rotating disk. Heat Transfer, 2021, 50, 2454-2487. | 3.0 | 17 |
| 9 | Entropy optimization analysis on nonlinear thermal radiative electromagnetic Darcyâ€“Forchheimer flow of SWCNT/MWCNT nanomaterials. Applied Nanoscience (Switzerland), 2021, 11, 399-418. | 3.1 | 39 |
| 10 | Cross flow on transient doubleâ€diffusive natural convection in inclined porous trapezoidal enclosures. Heat Transfer, 2021, 50, 849-875. | 3.0 | 14 |
| 11 | Entropy optimized MHD 3D nanomaterial of non-Newtonian fluid: A combined approach to good absorber of solar energy and intensification of heat transport. Computer Methods and Programs in Biomedicine, 2020, 186, 105131. | 4.7 | 140 |
| 12 | 3D Bioconvective multiple slip flow of chemically reactive Casson nanofluid with gyrotactic microâ€organisms. Heat Transfer - Asian Research, 2020, 49, 135-153. | 2.8 | 73 |
| 13 | 3D MHD cross flow over an exponential stretching porous surface. Heat Transfer, 2020, 49, 1256-1280. | 3.0 | 17 |
| 14 | Heat transfer and buoyancyâ€driven convective MHD flow of nanofluids impinging over a thin needle moving in a parallel stream influenced by Prandtl number. Heat Transfer, 2020, 49, 655-672. | 3.0 | 37 |
| 15 | Numerical simulation for entropy optimized nonlinear radiative flow of GOâ€Al 2 O 3 magneto nanomaterials with auto catalysis chemical reaction. Numerical Methods for Partial Differential Equations, 2020, , . | 3.6 | 9 |
| 16 | Influence of relaxationâ€retardation viscous dissipation on chemically reactive flow of Oldroydâ€B nanofluid with hyperbolic boundary conditions. Heat Transfer, 2020, 49, 4945-4967. | 3.0 | 11 |
| 17 | Impact of Entropy Generation and Nonlinear Thermal Radiation on Darcyâ€“Forchheimer Flow of MnFe2O4-Casson/Water Nanofluid due to a Rotating Disk: Application to Brain Dynamics. Arabian Journal for Science and Engineering, 2020, 45, 5471-5490. | 3.0 | 86 |
| 18 | Numerical simulation of hydrothermal features of Cuâ€“H2O nanofluid natural convection within a porous annulus considering diverse configurations of heater. Journal of Thermal Analysis and Calorimetry, 2020, 141, 2109-2125. | 3.6 | 121 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Thermodynamic effect in Darchyâ€“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. Journal of Engineering Mathematics, 2020, 120, 43-65. | 1.2 | 38 |
| 20 | EMHD flow of non-Newtonian nanofluids over thin needle with Robinsonâ€™s condition and Arrhenius pre-exponential factor law. Physica Scripta, 2020, 95, 115219. | 2.5 | 39 |
| 21 | 3D MHD Free Convective Stretched Flow of a Radiative Nanofluid Inspired by Variable Magnetic Field. Arabian Journal for Science and Engineering, 2019, 44, 1269-1282. | 3.0 | 58 |
| 22 | 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. European Physical Journal Plus, 2019, 134, 1. | 2.6 | 46 |
| 23 | Magnetohydrodynamic flow and heat transfer impact on ZnO-SAE50 nanolubricant flow over an inclined rotating disk. Journal of Central South University, 2019, 26, 1146-1160. | 3.0 | 49 |
| 24 | Impact of the Cattaneoâ€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 |
| 25 | 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. Journal of Nanofluids, 2019, 8, 94-102. | 2.7 | 40 |
| 26 | 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 |
| 27 | Combined effects of slip and convective boundary condition on MHD 3D stretched flow of nanofluid through porous media inspired by non-linear thermal radiation. Indian Journal of Physics, 2018, 92, 1017-1028. | 1.8 | 62 |
| 28 | Effects of Homogenousâ€“Heterogeneous Reactions on Radiative NaCl-CNP Nanofluid Flow Past a Convectively Heated Vertical Riga Plate. Journal of Nanofluids, 2018, 7, 657-667. | 2.7 | 33 |
| 29 | Chemical reaction effect on MHD viscoelastic fluid over a stretching sheet through porous medium. Meccanica, 2016, 51, 1699-1711. | 2.0 | 71 |
| 30 | Unsteady Radiative MHD Free Convective Flow and Mass Transfer of a Viscoelastic Fluid Past an Inclined Porous Plate. Arabian Journal for Science and Engineering, 2015, 40, 3029-3039. | 1.1 | 24 |
| 31 | 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 |
| 32 | 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 |
| 33 | Influence of Catteneo-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 |
| 34 | Entropy optimization for Darcyâ€“Forchheimer electro-magneto-hydrodynamic slip flow of ferronanofluid due to stretching/shrinking rotating disk. Waves in Random and Complex Media, 0, , 1-33. | 2.7 | 40 |
| 35 | 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. | 2.7 | 8 |