

# Puneet Rana

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

1,644  
citations

19  
h-index

39  
g-index

79  
ext. papers

2,002  
ext. citations

3.5  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
73	Heat transfer optimization of Marangoni convective flow of nanofluid over an infinite disk with Stefan blowing and slip effects using Taguchi method. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 130, 105822	5.8	2
72	Impact of different arrangements of heated elliptical body, fins and differential heater in MHD convective transport phenomena of inclined cavity utilizing hybrid nanoliquid: Artificial neural network prediction. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 132, 105900	5.8	4
71	Three-dimensional heat transfer of 29 nm CuO-H <sub>2</sub> O nanoliquid with Joule heating and slip effects over a wedge surface. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 134, 106001	5.8	2
70	Unsteady nonlinear thermal convection flow of MWCNT-MgO/EG hybrid nanofluid in the stagnation-point region of a rotating sphere with quadratic thermal radiation: RSM for optimization. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 134, 106025	5.8	6
69	FEM solution to quadratic convective and radiative flow of Ag-MgO/H <sub>2</sub> O hybrid nanofluid over a rotating cone with Hall current: Optimization using Response Surface Methodology. <i>Mathematics and Computers in Simulation</i> , <b>2022</b> , 201, 121-140	3.3	3
68	Numerical and sensitivity computations of three-dimensional flow and heat transfer of nanoliquid over a wedge using modified Buongiorno model. <i>Computers and Mathematics With Applications</i> , <b>2021</b> , 101, 51-62	2.7	6
67	Mixing performance of transverse hydrogen/air multi-jet through coaxial injector arrays in supersonic crossflow. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 19645-19656	6.7	2
66	Finite Element Study of Bio-Convective Stefan Blowing Ag-MgO/Water Hybrid Nanofluid Induced by Stretching Cylinder Utilizing Non-Fourier and Non-Fick's Laws. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	16
65	MHD natural convection in inclined wavy annulus utilizing hybrid nanofluid with discrete wavy coolers. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 1303-1318	4.1	9
64	Lie Group Analysis of Nanofluid Slip Flow with Stefan Blowing Effect via Modified Buongiorno Model: Entropy Generation Analysis. <i>Differential Equations and Dynamical Systems</i> , <b>2021</b> , 29, 193-210	0.8	9
63	Numerical study based on CVFEM for nanofluid radiation and magnetized natural convected heat transportation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 334, 116102	6	10
62	Heat transfer of TiO <sub>2</sub> /EG nanoliquid with active and passive control of nanoparticles subject to nonlinear Boussinesq approximation. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105443	5.8	17
61	External field impact on expedition of discharging including nanoparticles. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 335, 116134	6	2
60	Entropy generation analysis of tangent hyperbolic fluid in quadratic Boussinesq approximation using spectral quasi-linearization method. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2021</b> , 42, 1525-1542	3.2	6
59	Radiative heat transfer of nanomaterial on a convectively heated circular tube with activation energy and nanoparticle aggregation kinematic effects. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105568	5.8	5
58	Computational study of three-dimensional flow and heat transfer of 25 nm CuO/H <sub>2</sub> O nanoliquid with convective thermal condition and radiative heat flux using modified Buongiorno model. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101340	5.6	6
57	MHD convective heat transfer in the annulus between concentric cylinders utilizing nanoparticles and non-uniform heating <b>2020</b> ,		1

56	LTNE thermoconvective instability in Newtonian rotating layer under magnetic field utilizing nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 1	4.1	3
55	Second law thermodynamic analysis of thermo-magnetic Jeffery-Hamel dissipative radiative hybrid nanofluid slip flow: existence of multiple solutions. <i>European Physical Journal Plus</i> , <b>2020</b> , 135, 1	3.1	5
54	Triple diffusive convection study of a binary nanofluid saturated rotating porous layer under the influence of magnetic field. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , <b>2019</b> , 20, 395-403	0.7	1
53	Unsteady MHD Non-Newtonian Heat Transfer Nanofluids with Entropy Generation Analysis. <i>Nonlinear Engineering</i> , <b>2019</b> , 8, 630-644	3	10
52	Homotopy study of magnetohydrodynamic mixed convection nanofluid multiple slip flow and heat transfer from a vertical cylinder with entropy generation. <i>Propulsion and Power Research</i> , <b>2019</b> , 8, 147-162	3.6	23
51	Homotopy analysis method for predicting multiple solutions in the channel flow with stability analysis. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 66, 183-193	3.7	29
50	Critical values in transport phenomena for curved power-law sheet utilizing Al <sub>2</sub> O <sub>3</sub> -Cu/water hybrid nanoliquid: Model prediction and stability analysis. <i>Advanced Powder Technology</i> , <b>2019</b> , 30, 2787-2800	4.6	7
49	Elastic-plastic analysis of transversely isotropic spherical shell under internal pressure <b>2019</b> ,		2
48	Analytical prediction of multiple solutions for MHD Jeffery-Hamel flow and heat transfer utilizing KKL nanofluid model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 176-185	2.3	22
47	Finite element study of radiative double-diffusive mixed convection magneto-micropolar flow in a porous medium with chemical reaction and convective condition. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 107-120	6.1	10
46	Entropy generation analysis for non-similar analytical study of nanofluid flow and heat transfer under the influence of aligned magnetic field. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 3299-3310	6.1	13
45	Unsteady electromagnetic radiative nanofluid stagnation-point flow from a stretching sheet with chemically reactive nanoparticles, Stefan blowing effect and entropy generation. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanotechnology</i> , <b>2018</b> , 222, 69-80	1.4	9
44	Radiative nanofluid flow and heat transfer over a non-linear permeable sheet with slip conditions and variable magnetic field: Dual solutions. <i>Ain Shams Engineering Journal</i> , <b>2017</b> , 8, 341-352	4.4	12
43	Effect of chemical reaction and viscous dissipation on MHD nanofluid flow over a horizontal cylinder: Analytical solution <b>2017</b> ,		8
42	Slip effects on MHD Hiemenz stagnation point nanofluid flow and heat transfer along a nonlinearly shrinking sheet with induced magnetic field: multiple solutions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2017</b> , 39, 3363-3374	2	8
41	Creep transition in the rotating spherical shell under the effect of density variable by Sethi transition theory <b>2017</b> ,		1
40	MHD slip flow and heat transfer of Al <sub>2</sub> O <sub>3</sub> -water nanofluid over a horizontal shrinking cylinder using Buongiorno model: Effect of nanolayer and nanoparticle diameter. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 1727-1738	4.6	30
39	Unsteady MHD nanofluid flow past a stretching sheet with Stefan blowing effect: HAM solution <b>2017</b> ,		3

38	Combined thermophoresis and Brownian motion effects on nanofluid free convection heat transfer in an L-shaped enclosure. <i>Chinese Journal of Physics</i> , <b>2017</b> , 55, 2356-2370	3.5	34
37	Linear stability analysis on the onset of MHD non-Newtonian viscoelastic rotating nanofluid layer with heat generation <b>2017</b> ,		1
36	NUMERICAL STUDY OF MHD NATURAL CONVECTION LIQUID METAL FLOW AND HEAT TRANSFER IN A WAVY ENCLOSURE USING CVFEM. <i>Heat Transfer Research</i> , <b>2017</b> , 48, 121-138	3.9	12
35	Critical values in slip flow and heat transfer analysis of non-Newtonian nanofluid utilizing heat source/sink and variable magnetic field: Multiple solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 58, 155-164	5.3	28
34	Lie group analysis for bioconvection MHD slip flow and heat transfer of nanofluid over an inclined sheet: Multiple solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 66, 283-291	5.3	21
33	Two-component modeling for non-Newtonian nanofluid slip flow and heat transfer over sheet: Lie group approach. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2016</b> , 37, 1325-1340	3.2	5
32	Finite element simulation of magnetohydrodynamic convective nanofluid slip flow in porous media with nonlinear radiation. <i>AEJ - Alexandria Engineering Journal</i> , <b>2016</b> , 55, 1305-1319	6.1	37
31	Analysis of periodic and aperiodic convective stability of double diffusive nanofluid convection in rotating porous layer. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2016</b> , 37, 215-226	3.2	10
30	Lattice Boltzmann simulation of nanofluid heat transfer enhancement and entropy generation. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 214, 86-95	6	184
29	MHD mixed convection nanofluid flow and heat transfer over an inclined cylinder due to velocity and thermal slip effects: Buongiorno's model. <i>Powder Technology</i> , <b>2016</b> , 288, 140-150	5.2	71
28	Convective heat transport by longitudinal rolls in dilute nanoliquid layer of finite depth. <i>International Journal of Thermal Sciences</i> , <b>2016</b> , 108, 235-243	4.1	2
27	Influence of the combined effect of magnetic field and rotation on the onset of a non-Newtonian viscoelastic nanofluid layer: Linear and nonlinear analyses. <i>European Physical Journal Plus</i> , <b>2016</b> , 131, 1	3.1	4
26	Nonlinear convective analysis of a rotating Oldroyd-B nanofluid layer under thermal non-equilibrium utilizing Al <sub>2</sub> O <sub>3</sub> -EG colloidal suspension. <i>European Physical Journal Plus</i> , <b>2016</b> , 131, 1	3.1	8
25	Multiple solutions in MHD flow and heat transfer of Sisko fluid containing nanoparticles migration with a convective boundary condition: Critical points. <i>European Physical Journal Plus</i> , <b>2016</b> , 131, 1	3.1	12
24	Thermal stability analysis of rotating porous layer with thermal non-equilibrium approach utilizing Al <sub>2</sub> O <sub>3</sub> -EG Oldroyd-B nanofluid. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 19, 117-131	2.8	9
23	Mixed convection flow along an inclined permeable plate: effect of magnetic field, nanolayer conductivity and nanoparticle diameter. <i>Applied Nanoscience (Switzerland)</i> , <b>2015</b> , 5, 569-581	3.3	28
22	Finite element modeling of a double-diffusive mixed convection flow of a chemically-reacting magneto-micropolar fluid with convective boundary condition. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2015</b> , 47, 18-27	5.3	36
21	Convective Transport in a Binary Nanofluid Saturated Porous Layer: A Nonlinear Approach. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2015</b> , 12, 3130-3147	0.3	4

20	Two Phase Boundary Layer Nanofluid Flow and Heat Transfer Analysis Over a Stretching Sheet: A Realistic Approach. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2015</b> , 12, 3090-3095	0.3	5
19	Multiple solutions of MHD boundary layer flow and heat transfer behavior of nanofluids induced by a power-law stretching/shrinking permeable sheet with viscous dissipation. <i>Powder Technology</i> , <b>2015</b> , 273, 62-70	5.2	66
18	Convection in a Binary Nanofluid Saturated Rotating Porous Layer. <i>Journal of Nanofluids</i> , <b>2015</b> , 4, 59-65	2.2	13
17	Dual Solutions in MHD Boundary Layer Nanofluid Flow and Heat Transfer with Heat Source/Sink considering Viscous Dissipation. <i>Research Journal of Engineering and Technology</i> , <b>2015</b> , 6, 142		3
16	Magnetohydrodynamic free convection of Al <sub>2</sub> O <sub>3</sub> water nanofluid considering Thermophoresis and Brownian motion effects. <i>Computers and Fluids</i> , <b>2014</b> , 94, 147-160	2.8	189
15	Finite element solution of mixed convection flow of a nanofluid over a vertical stretching sheet with power law containing metal oxide nanoparticles. <i>International Journal of Applied Nonlinear Science</i> , <b>2014</b> , 1, 207		
14	Rayleigh-Bard Convection in a Nanofluid Layer Using a Thermal Nonequilibrium Model. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	19
13	Finite element simulation of unsteady magneto-hydrodynamic transport phenomena on a stretching sheet in a rotating nanofluid. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , <b>2013</b> , 227, 77-99		27
12	Finite element modeling of conjugate mixed convection flow of Al <sub>2</sub> O <sub>3</sub> water nanofluid from an inclined slender hollow cylinder. <i>Physica Scripta</i> , <b>2013</b> , 87, 055005	2.6	23
11	Numerical solution for mixed convection boundary layer flow of a nanofluid along an inclined plate embedded in a porous medium. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 64, 2816-2832	2.7	79
10	Flow and heat transfer of a nanofluid over a nonlinearly stretching sheet: A numerical study. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2012</b> , 17, 212-226	3.7	301
9	Mixed Convective Heat Transfer Flow of Nanofluid past a Permeable Vertical Flat Plate with Magnetic Effects: A Finite Element Study. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 110-116, 3679-3687	0.3	
8	Numerical study of heat transfer enhancement in mixed convection flow along a vertical plate with heat source/sink utilizing nanofluids. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2011</b> , 16, 4318-4334	3.7	89
7	A study on nanoliquid flow with irregular heat source and realistic boundary conditions: A modified Buongiorno model for biomedical applications. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> ,e202100167	1	3
6	LTNE magneto-thermal stability analysis on rough surfaces utilizing hybrid nanoparticles and heat source with artificial neural network prediction. <i>Applied Nanoscience (Switzerland)</i> ,1	3.3	2
5	Boundary layer flow of magneto-nanomicro-polar liquid over an exponentially elongated porous plate with Joule heating and viscous heating: a numerical study. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	5
4	Nanofluid flow past a vertical plate with nanoparticle aggregation kinematics, thermal slip and significant buoyancy force effects using modified Buongiorno model. <i>Waves in Random and Complex Media</i> ,1-25	1.9	10
3	Cattaneo-Christov Theory to model heat flux effect on nanoliquid slip flow over a spinning disk with nanoparticle aggregation and Hall current. <i>Waves in Random and Complex Media</i> ,1-23	1.9	1

2	Image enhancement by linear regression algorithm and sub-histogram equalization. <i>Multimedia Tools and Applications</i> ,1	2.5	0
1	Significance of aggregation of nanoparticles, activation energy, and Hall current to enhance the heat transfer phenomena in a nanofluid: a sensitivity analysis. <i>Waves in Random and Complex Media</i> ,1-23 <sup>1,9</sup>		1