

Nilankush Acharya

List of Publications by Year in descending order

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papers

1,895
citations

201674

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38
all docs

38
docs citations

38
times ranked

602
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Hall current on radiative nanofluid flow over a spinning disk: A hybrid approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 111, 103-112.	2.7	120
2	On the hydrothermal features of radiative Fe ₃ O ₄ –graphene hybrid nanofluid flow over a slippery bended surface with heat source/sink. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1273-1289.	3.6	98
3	On the flow patterns and thermal control of radiative natural convective hybrid nanofluid flow inside a square enclosure having various shaped multiple heated obstacles. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	81
4	On the hydrothermal behavior and entropy analysis of buoyancy driven magnetohydrodynamic hybrid nanofluid flow within an octagonal enclosure fitted with fins: Application to thermal energy storage. <i>Journal of Energy Storage</i> , 2022, 53, 105198.	8.1	80
5	Framing the effects of solar radiation on magneto-hydrodynamics bioconvection nanofluid flow in presence of gyrotactic microorganisms. <i>Journal of Molecular Liquids</i> , 2016, 222, 28-37.	4.9	77
6	Cattaneo–Christov intensity of magnetised upper-convected Maxwell nanofluid flow over an inclined stretching sheet: A generalised Fourier and Fick's perspective. <i>International Journal of Mechanical Sciences</i> , 2017, 130, 167-173.	6.7	77
7	The squeezing flow of Cu-water and Cu-kerosene nanofluids between two parallel plates. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 1177-1186.	6.4	76
8	Buoyancy driven magnetohydrodynamic hybrid nanofluid flow within a circular enclosure fitted with fins. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105980.	5.6	75
9	On the magnetohydrodynamic Al ₂ O ₃ -water nanofluid flow through parallel fins enclosed inside a partially heated hexagonal cavity. <i>International Communications in Heat and Mass Transfer</i> , 2022, 132, 105885.	5.6	73
10	On the flow patterns and thermal behaviour of hybrid nanofluid flow inside a microchannel in presence of radiative solar energy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1425-1442.	3.6	70
11	Spectral quasi linearization simulation of radiative nanofluidic transport over a bended surface considering the effects of multiple convective conditions. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 84, 139-154.	2.5	70
12	Influence of inclined magnetic field on the flow of condensed nanomaterial over a slippery surface: the hybrid visualization. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 633-647.	3.1	60
13	Entropy generation optimization of unsteady radiative hybrid nanofluid flow over a slippery spinning disk. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 6007-6024.	2.1	58
14	Framing the hydrothermal features of magnetized TiO ₂ –CoFe ₂ O ₄ water-based steady hybrid nanofluid flow over a radiative revolving disk. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019, 16, 765-790.	1.3	56
15	Unsteady bioconvective squeezing flow with higher-order chemical reaction and second-order slip effects. <i>Heat Transfer</i> , 2021, 50, 5538-5562.	3.0	50
16	Framing the Impacts of Highly Oscillating Magnetic Field on the Ferrofluid Flow Over a Spinning Disk Considering Nanoparticle Diameter and Solid–Liquid Interfacial Layer. <i>Journal of Heat Transfer</i> , 2020, 142, .	2.1	49
17	The onset of nanofluid flow past a convectively heated shrinking sheet in presence of heat source/sink: A Lie group approach. <i>Applied Thermal Engineering</i> , 2016, 103, 38-46.	6.0	48
18	Ramification of variable thickness on MHD TiO ₂ and Ag nanofluid flow over a slendering stretching sheet using NDM. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	44

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19	On the impact of nonlinear thermal radiation on magnetized hybrid condensed nanofluid flow over a permeable texture. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1679-1691.	3.1	44
20	Influence of multiple slips and chemical reaction on radiative MHD Williamson nanofluid flow in porous medium. <i>Multidiscipline Modeling in Materials and Structures</i> , 2019, 15, 630-658.	1.3	43
21	On the mixed convective carbon nanotube flow over a convectively heated curved surface. <i>Heat Transfer</i> , 2020, 49, 1713-1735.	3.0	41
22	Spectral quasi linearization simulation on the radiative nanofluid spraying over a permeable inclined spinning disk considering the existence of heat source/sink. <i>Applied Mathematics and Computation</i> , 2021, 411, 126547.	2.2	40
23	Influence of Variable Fluid Properties on Nanofluid Flow over a Wedge with Surface Slip. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 2119-2131.	3.0	39
24	Effects of aggregation kinetics on nanoscale colloidal solution inside a rotating channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 461-477.	3.6	39
25	Spectral simulation to investigate the effects of nanoparticle diameter and nanolayer on the ferrofluid flow over a slippery rotating disk in the presence of low oscillating magnetic field. <i>Heat Transfer</i> , 2021, 50, 5951-5981.	3.0	37
26	Differential transformed approach of unsteady chemically reactive nanofluid flow over a bidirectional stretched surface in presence of magnetic field. <i>Heat Transfer</i> , 2020, 49, 3917-3942.	3.0	36
27	Rotating flow of carbon nanotube over a stretching surface in the presence of magnetic field: a comparative study. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 369-378.	3.1	35
28	Spectral quasi linearization simulation on the hydrothermal behavior of hybrid nanofluid spraying on an inclined spinning disk. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 4, 100094.	2.4	32
29	Framing the features of MHD boundary layer flow past an unsteady stretching cylinder in presence of non-uniform heat source. <i>Journal of Molecular Liquids</i> , 2017, 225, 418-425.	4.9	31
30	Outlining the impact of second-order slip and multiple convective condition on nanofluid flow: A new statistical layout. <i>Canadian Journal of Physics</i> , 2018, 96, 104-111.	1.1	31
31	Active-passive controls of liquid di-hydrogen mono-oxide based nanofluidic transport over a bended surface. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27600-27614.	7.1	29
32	Fabrication of active and passive controls of nanoparticles of unsteady nanofluid flow from a spinning body using HPM. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	28
33	Spectral approach to study the entropy generation of radiative mixed convective couple stress fluid flow over a permeable stretching cylinder. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 2692-2704.	2.1	25
34	Spectral Simulation to Investigate the Effects of Active Passive Controls of Nanoparticles on the Radiative Nanofluidic Transport Over a Spinning Disk. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	25
35	Impacts of different thermal modes of multiple obstacles on the hydrothermal analysis of $Fe_{3}O_{4}$ -water nanofluid enclosed inside a nonuniformly heated cavity. <i>Heat Transfer</i> , 2022, 51, 1376-1405.	3.0	24
36	Effects of different thermal modes of obstacles on the natural convective $Al_{2}O_{3}$ -water nanofluidic transport inside a triangular cavity. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 5282-5299.	2.1	21

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37	On the heat transport mechanism and entropy generation in a nozzle of liquid rocket engine using ferrofluid: A computational framework. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 739-750.	3.1	19
38	Finite element analysis on the hydrothermal pattern of radiative natural convective nanofluid flow inside a square enclosure having nonuniform heated walls. <i>Heat Transfer</i> , 2022, 51, 323-354.	3.0	14