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Numerical study of entropy analysis for electrical unsteady natural magnetohydrodynamic flow of nanofluid and heat transfer

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#	Paper	IF	Citations
42	Double stratification effects on unsteady electrical MHD mixed convection flow of nanofluid with viscous dissipation and Joule heating. <i>Journal of Applied Research and Technology</i> , 2017 , 15, 464-476	1.7	52
41	Effects of inclined magnetic field on mixed convection in a nanofluid filled double lid-driven cavity with volumetric heat generation or absorption using finite element method. <i>Chinese Journal of Physics</i> , 2018 , 56, 484-501	3.5	45
40	Entropy generation and MHD natural convection of a nanofluid in an inclined square porous cavity: Effects of a heat sink and source size and location. <i>Chinese Journal of Physics</i> , 2018 , 56, 193-211	3.5	135
39	Thermal stratification effects on MHD radiative flow of nanofluid over nonlinear stretching sheet with variable thickness. <i>Journal of Computational Design and Engineering</i> , 2018 , 5, 232-242	4.6	44
38	Entropy generation of electromagnetohydrodynamic (EMHD) flow in a curved rectangular microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 901-913	4.9	55
37	Entropy optimization and quartic autocatalysis in MHD chemically reactive stagnation point flow of Sisko nanomaterial. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 829-837	4.9	80
36	Entropy analysis for comparative study of effective Prandtl number and without effective Prandtl number via $\text{Al}_2\text{O}_3\text{-H}_2\text{O}$ and $\text{Al}_2\text{O}_3\text{-C}_2\text{H}_6\text{O}_2$ nanoparticles. <i>Journal of Molecular Liquids</i> , 2018 , 266, 814-823	6	46
35	An enhancement in thermal performance of partially ionized fluid due to hybrid nano-structures exposed to magnetic field. <i>AIP Advances</i> , 2019 , 9, 085024	1.5	15
34	Magnetohydrodynamic nanofluid radiative thermal behavior by means of Darcy law inside a porous media. <i>Scientific Reports</i> , 2019 , 9, 12765	4.9	6
33	Thermal radiation on unsteady electrical MHD flow of nanofluid over stretching sheet with chemical reaction. <i>Journal of King Saud University - Science</i> , 2019 , 31, 804-812	3.6	41
32	Hydromagnetic slip flow of nanofluid with thermal stratification and convective heating. <i>Australian Journal of Mechanical Engineering</i> , 2020 , 18, 147-155	1	7
31	Slip role for unsteady MHD mixed convection of nanofluid over stretching sheet with thermal radiation and electric field. <i>Indian Journal of Physics</i> , 2020 , 94, 195-207	1.4	27
30	Influence of Lorentz force and Induced Magnetic Field Effects on Casson Micropolar nanofluid flow over a permeable curved stretching/shrinking surface under the stagnation region. <i>Surfaces and Interfaces</i> , 2020 , 21, 100766	4.1	17
29	Biomedical aspects of entropy generation on electromagnetohydrodynamic blood flow of hybrid nanofluid with nonlinear thermal radiation and non-uniform heat source/sink. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	27
28	Theoretical treatment of radiative Oldroyd-B nanofluid with microorganism pass an exponentially stretching sheet. <i>Surfaces and Interfaces</i> , 2020 , 21, 100686	4.1	20
27	Computational finite element analysis of brake disc rotors employing different materials. <i>Australian Journal of Mechanical Engineering</i> , 2020 , 1-14	1	6
26	Second law analysis with effects of Arrhenius activation energy and binary chemical reaction on nanofluid flow. <i>Scientific Reports</i> , 2020 , 10, 1226	4.9	23

25	Entropy generation in electrical magnetohydrodynamic flow of Al ₂ O ₃ -Cu/H ₂ O hybrid nanofluid with non-uniform heat flux. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2135-2148	4.1	33
24	Entropy generation analysis in magnetohydrodynamic Sisko nanofluid flow with chemical reaction and convective boundary conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 3396-3417	2.3	0
23	Entropy generation analysis of electrical magnetohydrodynamic flow of TiO ₂ -Cu/H ₂ O hybrid nanofluid with partial slip. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 1905-1929	4.5	2
22	A novel design of Gaussian WaveNets for rotational hybrid nanofluidic flow over a stretching sheet involving thermal radiation. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 123, 105196	5.8	26
21	Comparative study of ferromagnetic hybrid (manganese zinc ferrite, nickle zinc ferrite) nanofluids with velocity slip and convective conditions. <i>Physica Scripta</i> , 2021 , 96, 075203	2.6	10
20	Influence of radiative heat flux in nonlinear convection of quartic order in Casson fluid past a vertical permeable plate with variable suction and Hall current. <i>Chinese Journal of Physics</i> , 2021 ,	3.5	4
19	Entropy analysis on unsteady MHD biviscosity nanofluid flow with convective heat transfer in a permeable radiative stretchable rotating disk. <i>Chinese Journal of Physics</i> , 2021 , 74, 239-239	3.5	10
18	Numerical analysis of magneto-natural convection and thermal radiation of SWCNT nanofluid inside T-inverted shaped corrugated cavity containing porous medium. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	3
17	Hydromagnetic flow and thermal interpretations of Cross hybrid nanofluid influenced by linear, nonlinear and quadratic thermal radiations for any Prandtl number. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 130, 105816	5.8	13
16	Influence of radiation and viscous dissipation on MHD heat transfer Casson nanofluid flow along a nonlinear stretching surface with chemical reaction. <i>Heat Transfer</i> ,	3.1	3
15	Biconvective transport of magnetized couple stress fluid over a radiative paraboloid of revolution. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892110727	1.5	2
14	A viscously dissipated Blasius boundary layer flow with variable thermo-physical properties: An entropy generation study. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 131, 105873	5.8	2
13	Numerical investigation of hybrid nanofluid with gyrotactic microorganism and multiple slip conditions through a porous rotating disk. <i>Waves in Random and Complex Media</i> , 1-16	1.9	5
12	Parametric study of reflectivity transmittance of materials for potential solar adsorption refrigeration system. <i>International Journal of Low-Carbon Technologies</i> ,	2.8	1
11	MHD nanofluid flow over an absorbent plate in the company of chemical response and zero nanoparticle flux. <i>Forces in Mechanics</i> , 2022 , 7, 100102	1.5	2
10	Effect of Williamson parameter on Cu-water Williamson nanofluid over a vertical plate. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 137, 106273	5.8	1
9	Numerical Appraisal of Time-Dependent Peristaltic Duct Flow Using Casson Fluid. 2022 , 107676		0
8	Finite element analysis on the thermo-convective non-isothermal nanofluid flow in MHD Hall generator system with Soret and Dufour effects. 2022 , 39, 102389		1

- 7 Stefan flow of nanofluid and heat transport over a plate in company of Thompson and Troian slip and uniform shear flow. **2022**, 100129 ○
- 6 Heat and mass transfer of water-based copper and alumina hybrid nanofluid over a stretching sheet. 1
- 5 Blood-based ternary hybrid nanofluid flow-through perforated capillary for the applications of drug delivery. 1-19 ○
- 4 Heat transfer intensification of NEPCM-water suspension filled heat sink cavity with notches cooling tubes by applying the electric field. **2023**, 59, 106492 ○
- 3 Modeling and computational framework of radiative hybrid nanofluid configured by a stretching surface subject to entropy generation: Using Keller box scheme. **2023**, 16, 104628 1
- 2 Influence of Marangoni convection, solar radiation, and viscous dissipation on the bioconvection couple stress flow of the hybrid nanofluid over a shrinking surface. 9, ○
- 1 MHD chemical reactive flow with velocity slip temperature and concentration jump conditions. ○