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Entropy analysis in electrical magnetohydrodynamic (MHD) flow of nanofluid with effects of thermal radiation, viscous dissipation, and chemical reaction

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Theoretical and Applied Mechanics Letters, 2017, 7, 235-242.

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#	Paper	IF	Citations
75	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> , <b>2017</b> , 15, 464-476	1.7	52
74	Numerical study of entropy analysis for electrical unsteady natural magnetohydrodynamic flow of nanofluid and heat transfer. <i>Chinese Journal of Physics</i> , <b>2017</b> , 55, 1821-1848	3.5	32
73	Unsteady mixed convective flow of Williamson nanofluid with heat transfer in the presence of variable thermal conductivity and magnetic field. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 260, 436-446	6	56
72	Thermal stratification effects on MHD radiative flow of nanofluid over nonlinear stretching sheet with variable thickness. <i>Journal of Computational Design and Engineering</i> , <b>2018</b> , 5, 232-242	4.6	44
71	Impact of thermal radiation on electrical MHD flow of nanofluid over nonlinear stretching sheet with variable thickness. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 2187-2197	6.1	53
70	Entropy generation of electromagnetohydrodynamic (EMHD) flow in a curved rectangular microchannel. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 901-913	4.9	55
69	Thermal explosion and irreversibility of hydromagnetic reactive couple stress fluid with viscous dissipation and Navier slips. <i>Theoretical and Applied Mechanics Letters</i> , <b>2019</b> , 9, 246-253	1.8	15
68	Computation of Melting Dissipative Magnetohydrodynamic Nanofluid Bioconvection with Second-order Slip and Variable Thermophysical Properties. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2493	2.6	16
67	Response to (Comment on the paper [Theoretical & Applied Mechanics Letters 7 (2017) 235-242]) <i>Theoretical and Applied Mechanics Letters</i> , <b>2019</b> , 9, 274-275	1.8	
66	An enhancement in thermal performance of partially ionized fluid due to hybrid nano-structures exposed to magnetic field. <i>AIP Advances</i> , <b>2019</b> , 9, 085024	1.5	15
65	Comment on the paper [Theoretical & Applied Mechanics Letters 7 (2017) 235-242] <i>Theoretical and Applied Mechanics Letters</i> , <b>2019</b> , 9, 273	1.8	
64	Change in internal energy of thermal diffusion stagnation point Maxwell nanofluid flow along with solar radiation and thermal conductivity. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 2352-2358	3.2	52
63	Stratified electromagnetohydrodynamic flow of nanofluid supporting convective role. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1021-1032	2.8	18
62	Modeling and analysis for magnetic dipole impact in nonlinear thermally radiating Carreau nanofluid flow subject to heat generation. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 485, 197-204	2.8	81
61	Thermal radiation on unsteady electrical MHD flow of nanofluid over stretching sheet with chemical reaction. <i>Journal of King Saud University - Science</i> , <b>2019</b> , 31, 804-812	3.6	41
60	Hydromagnetic slip flow of nanofluid with thermal stratification and convective heating. <i>Australian Journal of Mechanical Engineering</i> , <b>2020</b> , 18, 147-155	1	7
59	An Isothermal Elastohydrodynamic lubrication of elliptical contact with Multigrid method. <i>Australian Journal of Mechanical Engineering</i> , <b>2020</b> , 18, 375-384	1	1

58	Slip role for unsteady MHD mixed convection of nanofluid over stretching sheet with thermal radiation and electric field. <i>Indian Journal of Physics</i> , <b>2020</b> , 94, 195-207	1.4	27
57	Analysis of two dimensional Carreau fluid flow due to normal surface condition: A generalized Fourier and Fick laws. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 540, 123024	3.3	19
56	Unsteady EMHD dual stratified flow of nanofluid with slips impacts. <i>AEJ - Alexandria Engineering Journal</i> , <b>2020</b> , 59, 177-189	6.1	18
55	Unsteady MHD Bionanofluid Flow in a Porous Medium with Thermal Radiation near a Stretching/Shrinking Sheet. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-14	1.1	5
54	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> , <b>2020</b> , 21, 100766	4.1	17
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52	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> , <b>2020</b> , 135, 1	3.1	27
51	Theoretical treatment of radiative Oldroyd-B nanofluid with microorganism pass an exponentially stretching sheet. <i>Surfaces and Interfaces</i> , <b>2020</b> , 21, 100686	4.1	20
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47	Thermal runaway and thermodynamic second law of a reactive couple stress hydromagnetic fluid with variable properties and Navier slips. <i>Scientific African</i> , <b>2020</b> , 7, e00261	1.7	8
46	Second law analysis with effects of Arrhenius activation energy and binary chemical reaction on nanofluid flow. <i>Scientific Reports</i> , <b>2020</b> , 10, 1226	4.9	23
45	Entropy generation in electrical magnetohydrodynamic flow of Al <sub>2</sub> O <sub>3</sub> -Cu/H <sub>2</sub> O hybrid nanofluid with non-uniform heat flux. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 2135-2148	4.1	33
44	Simulation of entropy optimization and thermal behavior of nanofluid through the porous media. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 120, 105039	5.8	15
43	Entropy generation analysis of electrical magnetohydrodynamic flow of TiO <sub>2</sub> -Cu/H <sub>2</sub> O hybrid nanofluid with partial slip. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2021</b> , 31, 1905-1929	4.5	2
42	Analytical study of MHD mixed convection flow for Maxwell nanofluid with variable thermal conductivity and Soret and Dufour effects. <i>AIP Advances</i> , <b>2021</b> , 11, 035215	1.5	5
41	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> , <b>2021</b> , 123, 105196	5.8	26

40	Cross-diffusion and heat source effects on a three-dimensional MHD flow of Maxwell nanofluid over a stretching surface with chemical reaction. <i>European Physical Journal: Special Topics</i> , <b>2021</b> , 230, 1371	2.3	8
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37	Heat and mass transfer on MHD squeezing flow of Jeffrey nanofluid in horizontal channel through permeable medium. <i>PLoS ONE</i> , <b>2021</b> , 16, e0250402	3.7	4
36	Analysis of entropy generation on hydromagnetic viscoelastic nanofluid in stagnation-point flow over a stretching sheet. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 1-17	0.7	1
35	On electroosmosis in peristaltic activity of MHD non-Newtonian fluid. <i>AEJ - Alexandria Engineering Journal</i> , <b>2021</b> , 60, 3369-3377	6.1	9
34	Impact of nanoparticles shape and radiation on the behavior of nanofluid under the Lorentz forces. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101161	5.6	12
33	Stefan Blowing Impacts on Unsteady MHD Flow of Nanofluid over a Stretching Sheet with Electric Field, Thermal Radiation and Activation Energy. <i>Coatings</i> , <b>2021</b> , 11, 1048	2.9	8
32	Electrical magneto hydrodynamic flow of graphene nanoplatelet-platinum/water hybrid nanofluid with entropy generation. <i>International Journal of Ambient Energy</i> , 1-22	2	1
31	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> , <b>2022</b> , 130, 105816	5.8	13
30	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> , <b>2022</b> , 131, 105873	5.8	2
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15	Heat and mass transfer of water-based copper and alumina hybrid nanofluid over a stretching sheet.		1
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13	Dynamics of nonlinear-shaped solid particles occurrence of hydro-magnetic slip with comparative analysis of radiated ternary, hybrid and nanofluid flow in a rotating internally heating cylinder.		0
12	Thermal Performance on Radiative and Ohmic Dissipative Magneto-Nanoliquid Over Moving Flat Porous Plate Suspended by Single Wall Carbon Nanotubes and Multi Wall Carbon Nanotubes. <b>2023</b> , 12, 192-201		0
11	Thermal and concentration slip flow of casson nanofluid with suction phenomenon: A newly developed block scheme.		0
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- 2 MHD chemical reactive flow with velocity slip temperature and concentration jump conditions.
- 1 Convective heat transfer performance of MHD nanofluid flow with temperature dependent viscosity over stretching surface.