

Bagh Ali

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64
papers

1,084
citations

19
h-index

29
g-index

72
ext. papers

1,839
ext. citations

3.2
avg, IF

5.68
L-index

#	Paper	IF	Citations
64	Finite Element Simulation of Multi-Slip Effects on Unsteady MHD Bioconvective Micropolar Nanofluid Flow Over a Sheet with Solutal and Thermal Convective Boundary Conditions. <i>Coatings</i> , 2019 , 9, 842	2.9	60
63	Finite Element Analysis of Thermo-Diffusion and Multi-Slip Effects on MHD Unsteady Flow of Casson Nano-Fluid over a Shrinking/Stretching Sheet with Radiation and Heat Source. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5217	2.6	57
62	Thermo-Diffusion and Multislip Effects on MHD Mixed Convection Unsteady Flow of Micropolar Nanofluid over a Shrinking/Stretching Sheet with Radiation in the Presence of Heat Source. <i>Symmetry</i> , 2020 , 12, 49	2.7	51
61	Finite element investigation of Dufour and Soret impacts on MHD rotating flow of Oldroyd-B nanofluid over a stretching sheet with double diffusion Cattaneo Christov heat flux model. <i>Powder Technology</i> , 2021 , 377, 439-452	5.2	48
60	Finite Element Simulation of Multiple Slip Effects on MHD Unsteady Maxwell Nanofluid Flow over a Permeable Stretching Sheet with Radiation and Thermo-Diffusion in the Presence of Chemical Reaction. <i>Processes</i> , 2019 , 7, 628	2.9	47
59	Multiple Slip Effects on Magnetohydrodynamic Axisymmetric Buoyant Nanofluid Flow above a Stretching Sheet with Radiation and Chemical Reaction. <i>Symmetry</i> , 2019 , 11, 1171	2.7	37
58	Analysis of Magnetic Properties of Nano-Particles Due to a Magnetic Dipole in Micropolar Fluid Flow over a Stretching Sheet. <i>Coatings</i> , 2020 , 10, 170	2.9	37
57	A Finite Element Simulation of the Active and Passive Controls of the MHD Effect on an Axisymmetric Nanofluid Flow with Thermo-Diffusion over a Radially Stretched Sheet. <i>Processes</i> , 2020 , 8, 207	2.9	35
56	Multiple slip effects on MHD unsteady viscoelastic nano-fluid flow over a permeable stretching sheet with radiation using the finite element method. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	33
55	Finite Element Study of Magnetohydrodynamics (MHD) and Activation Energy in Darcy-Borchheimer Rotating Flow of Casson Carreau Nanofluid. <i>Processes</i> , 2020 , 8, 1185	2.9	31
54	A comparative description on time-dependent rotating magnetic transport of a water base liquid H ₂ O with hybrid nano-materials Al ₂ O ₃ -Cu and Al ₂ O ₃ -TiO ₂ over an extending sheet using Buongiorno model: Finite element approach. <i>Chinese Journal of Physics</i> , 2021 , 70, 125-139	3.5	29
53	Variable Viscosity Effects on Unsteady MHD an Axisymmetric Nanofluid Flow over a Stretching Surface with Thermo-Diffusion: FEM Approach. <i>Symmetry</i> , 2020 , 12, 234	2.7	28
52	Insight into the dynamics of fluid conveying tiny particles over a rotating surface subject to Cattaneo-Christov heat transfer, Coriolis force, and Arrhenius activation energy. <i>Computers and Mathematics With Applications</i> , 2021 , 93, 130-143	2.7	26
51	Finite element simulation of bioconvection and cattaneo-Christov effects on micropolar based nanofluid flow over a vertically stretching sheet. <i>Chinese Journal of Physics</i> , 2020 , 68, 654-670	3.5	24
50	Thermo-Diffusion and Multi-Slip Effect on an Axisymmetric Casson Flow over a Unsteady Radially Stretching Sheet in the Presence of Chemical Reaction. <i>Processes</i> , 2019 , 7, 851	2.9	23
49	Finite Element Study for Magnetohydrodynamic (MHD) Tangent Hyperbolic Nanofluid Flow over a Faster/Slower Stretching Wedge with Activation Energy. <i>Mathematics</i> , 2021 , 9, 25	2.3	21
48	Impact of Stefan blowing on thermal radiation and Cattaneo-Christov characteristics for nanofluid flow containing microorganisms with ablation/accretion of leading edge: FEM approach. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	21

47	Brownian motion and thermophoresis effects on bioconvection of rotating Maxwell nanofluid over a Riga plate with Arrhenius activation energy and Cattaneo-Christov heat flux theory. <i>Thermal Science and Engineering Progress</i> , 2021 , 23, 100863	3.6	20
46	Analyzing the interaction of hybrid base liquid C ₂ H ₆ O ₂ -H ₂ O with hybrid nano-material Ag-MoS ₂ for unsteady rotational flow referred to an elongated surface using modified Buongiorno's model: FEM simulation. <i>Mathematics and Computers in Simulation</i> , 2021 , 190, 57-74	3.3	20
45	The Impact of Nanoparticles Due to Applied Magnetic Dipole in Micropolar Fluid Flow Using the Finite Element Method. <i>Symmetry</i> , 2020 , 12, 520	2.7	19
44	Implication of Bio-convection and Cattaneo-Christov heat flux on Williamson Sutterby nanofluid transportation caused by a stretching surface with convective boundary. <i>Chinese Journal of Physics</i> , 2021 , 73, 706-718	3.5	18
43	Significance of Brownian motion and thermophoresis influence on dynamics of Reiner-Rivlin fluid over a disk with non-Fourier heat flux theory and gyrotactic microorganisms: A Numerical approach. <i>Physica Scripta</i> , 2021 , 96, 094001	2.6	17
42	Finite Element Analysis of Variable Viscosity Impact on MHD Flow and Heat Transfer of Nanofluid Using the Cattaneo-Christov Model. <i>Coatings</i> , 2020 , 10, 395	2.9	16
41	Unsteady magneto-hydrodynamic transport of rotating Maxwell nanofluid flow on a stretching sheet with Cattaneo-Christov double diffusion and activation energy. <i>Thermal Science and Engineering Progress</i> , 2020 , 20, 100720	3.6	16
40	Finite Element Study of MHD Impacts on the Rotating Flow of Casson Nanofluid with the Double Diffusion Cattaneo-Christov Heat Flux Model. <i>Mathematics</i> , 2020 , 8, 1555	2.3	16
39	Finite element simulation of bioconvection Falkner-Skan flow of a Maxwell nanofluid fluid along with activation energy over a wedge. <i>Physica Scripta</i> , 2020 , 95, 095214	2.6	15
38	Magnetic dipole and thermal radiation effects on hybrid base micropolar CNTs flow over a stretching sheet: Finite element method approach. <i>Results in Physics</i> , 2021 , 25, 104145	3.7	15
37	G-Jitter impact on magnetohydrodynamic non-Newtonian fluid over an inclined surface: Finite element simulation. <i>Chinese Journal of Physics</i> , 2021 , 71, 479-491	3.5	15
36	Magnetic Rotating Flow of a Hybrid Nano-Materials Ag-MoS ₂ and Go-MoS ₂ in C ₂ H ₆ O ₂ -H ₂ O Hybrid Base Fluid over an Extending Surface Involving Activation Energy: FE Simulation. <i>Mathematics</i> , 2020 , 8, 1730	2.3	14
35	Melting effect on Cattaneo-Christov and thermal radiation features for aligned MHD nanofluid flow comprising microorganisms to leading edge: FEM approach. <i>Computers and Mathematics With Applications</i> , 2022 , 109, 260-269	2.7	14
34	Buoyancy Effects On Falkner-Skan Flow of a Maxwell Nanofluid Fluid With Activation Energy past a wedge: Finite Element Approach. <i>Chinese Journal of Physics</i> , 2020 , 68, 368-380	3.5	14
33	The function of nanoparticle's diameter and Darcy-Forchheimer flow over a cylinder with effect of magnetic field and thermal radiation. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101392	5.6	14
32	Finite element analysis on transient MHD 3D rotating flow of Maxwell and tangent hyperbolic nanofluid past a bidirectional stretching sheet with Cattaneo-Christov heat flux model. <i>Thermal Science and Engineering Progress</i> , 2021 , 101089	3.6	13
31	Significance of suction/injection, gravity modulation, thermal radiation, and magnetohydrodynamic on dynamics of micropolar fluid subject to an inclined sheet via finite element approach. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101537	5.6	13
30	Soret and Radiation Effects on Mixture of Ethylene Glycol-Water (50%-50%) Based Maxwell Nanofluid Flow in an Upright Channel. <i>Complexity</i> , 2021 , 2021, 1-12	1.6	13

29	MHD Williamson Nanofluid Flow over a Slender Elastic Sheet of Irregular Thickness in the Presence of Bioconvection. <i>Nanomaterials</i> , 2021 , 11,	5.4	13
28	MHD Boundary Layer Flow and Heat Transfer of Nano fluid over a Vertical Stretching Sheet in the Presence of a Heat Source. <i>Scientific Inquiry and Review</i> , 2019 , 3, 60-73	1.7	12
27	Magnetic Dipole and Thermal Radiation Impacts on Stagnation Point Flow of Micropolar Based Nanofluids over a Vertically Stretching Sheet: Finite Element Approach. <i>Processes</i> , 2021 , 9, 1089	2.9	11
26	Significance of Lorentz and Coriolis forces on dynamics of water based silver tiny particles via finite element simulation. <i>Ain Shams Engineering Journal</i> , 2021 ,	4.4	11
25	A comparative study of unsteady MHD Falkner-Skan wedge flow for non-Newtonian nanofluids considering thermal radiation and activation energy. <i>Chinese Journal of Physics</i> , 2022 ,	3.5	11
24	Implications of bioconvection and activation energy on Reiner-Bivlin nanofluid transportation over a disk in rotation with partial slip. <i>Chinese Journal of Physics</i> , 2021 , 73, 672-683	3.5	10
23	Analysis of bio-convective MHD Blasius and Sakiadis flow with Cattaneo-Christov heat flux model and chemical reaction. <i>Chinese Journal of Physics</i> , 2021 ,	3.5	10
22	Magnetohydrodynamic mass and heat transport over a stretching sheet in a rotating nanofluid with binary chemical reaction, non-fourier heat flux, and swimming microorganisms. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101367	5.6	8
21	Stefan Blowing Impacts on Unsteady MHD Flow of Nanofluid over a Stretching Sheet with Electric Field, Thermal Radiation and Activation Energy. <i>Coatings</i> , 2021 , 11, 1048	2.9	8
20	Significance of Stephen blowing and Lorentz force on dynamics of Prandtl nanofluid via Keller box approach. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 128, 105599	5.8	8
19	Hybrid nanofluids: Significance of gravity modulation, heat source/ sink, and magnetohydrodynamic on dynamics of micropolar fluid over an inclined surface via finite element simulation. <i>Applied Mathematics and Computation</i> , 2022 , 419, 126878	2.7	7
18	Numerical solution of 3D rotating nanofluid flow subject to Darcy-Forchheimer law, bio-convection and activation energy. <i>South African Journal of Chemical Engineering</i> , 2022 , 40, 48-56	3.2	6
17	Bioconvection: Significance of mixed convection and mhd on dynamics of Casson nanofluid in the stagnation point of rotating sphere via finite element simulation. <i>Mathematics and Computers in Simulation</i> , 2021 ,	3.3	6
16	Buoyancy Effect on MHD Slip Flow and Heat Transfer of a Nanofluid Flow Over a Vertical Porous Plate. <i>Scientific Inquiry and Review</i> , 2019 , 4, 1-16	1.7	6
15	Finite element analysis of unsteady MHD Blasius and Sakiadis flow with radiation and thermal convection using Cattaneo-Christov heat flux model. <i>Physica Scripta</i> , 2021 , 96, 125219	2.6	6
14	Study on the novel suppression of heat transfer deterioration of supercritical water flowing in vertical tube through the suspension of alumina nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 132, 105893	5.8	5
13	Significance of hybrid nanoparticles, Lorentz and Coriolis forces on the dynamics of water based flow. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 135, 106084	5.8	5
12	Stratification and Buoyancy Effect of Heat Transportation in Magnetohydrodynamics Micropolar Fluid Flow Passing Over a Porous Shrinking Sheet Using the Finite Element Method. <i>Journal of Nanofluids</i> , 2019 , 8, 1640-1647	2.2	4

11	Attribution of Multi-slips and Bioconvection for Micropolar Nanofluids Transpiration Through Porous Medium over an Extending Sheet with PST and PHF Conditions. <i>International Journal of Applied and Computational Mathematics</i> , 2021 , 7, 1	1.3	4
10	Aligned Magnetic and Bioconvection Effects on Tangent Hyperbolic Nanofluid Flow Across Faster/Slower Stretching Wedge with Activation Energy: Finite Element Simulation. <i>International Journal of Applied and Computational Mathematics</i> , 2021 , 7, 1	1.3	4
9	Transient rotating nanofluid flow over a Riga plate with gyrotactic micro-organisms, binary chemical reaction and non-Fourier heat flux. <i>Chinese Journal of Physics</i> , 2021 , 73, 732-745	3.5	4
8	Tangent hyperbolic nanofluid: Significance of Lorentz and buoyancy forces on dynamics of bioconvection flow of rotating sphere via finite element simulation. <i>Chinese Journal of Physics</i> , 2022 , 77, 658-671	3.5	4
7	Boger nanofluid: significance of Coriolis and Lorentz forces on dynamics of rotating fluid subject to suction/injection via finite element simulation.. <i>Scientific Reports</i> , 2022 , 12, 1612	4.9	3
6	Impact of Bioconvection and Chemical Reaction on MHD Nanofluid Flow Due to Exponential Stretching Sheet. <i>Symmetry</i> , 2021 , 13, 2334	2.7	3
5	Computational analysis of rotating flow of hybrid nanofluid over a stretching surface. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892211000	1.5	1
4	Computational Analysis for Bioconvection of Microorganisms in Prandtl Nanofluid Darcy-Borchheimer Flow across an Inclined Sheet. <i>Nanomaterials</i> , 2022 , 12, 1791	5.4	1
3	A comparative note on the free convection of micropolar nanofluid due to the interaction of buoyancy and the dissipative heat energy. <i>Heat Transfer</i> , 2021 , 50, 7020	3.1	0
2	MHD Natural Convection and Radiation over a Flame in a Partially Heated Semicircular Cavity Filled with a Nanofluid. <i>Mathematics</i> , 2022 , 10, 1347	2.3	0
1	Numerical investigation for MHD Prandtl nanofluid transportation due to a moving wedge: Keller box approach. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 135, 106141	5.8	0