

Muhammad Nawaz

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,805
citations

257450

24
h-index

377865

34
g-index

90
all docs

90
docs citations

90
times ranked

685
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of simultaneous transport of heat and mass transfer in Maxwell hybrid nanofluid in the presence of Soret and Dufour effects. <i>Physica Scripta</i> , 2022, 97, 025207.	2.5	25
2	Mixed convective transport in Maxwell hybrid nano-fluid under generalized Fourier and Fick laws. <i>International Communications in Heat and Mass Transfer</i> , 2022, 130, 105714.	5.6	11
3	Computational analysis for enhancement of heat and mass transfer in MHD-polymer with hybrid nano-particles using generalized laws. <i>Case Studies in Thermal Engineering</i> , 2022, 31, 101851.	5.7	8
4	Numerical study on non-Fourier heat and mass transfer in partially ionized MHD Williamson hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105967.	5.6	18
5	Numerical study of heat and mass transfer enhancement in Prandtl fluid MHD flow using Cattaneo-Christov heat flux theory. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101949.	5.7	37
6	Non-Fourier modeling and numerical simulations on heat and transfer in tangent hyperbolic nanofluid subjected to chemical reactions. <i>International Communications in Heat and Mass Transfer</i> , 2022, 134, 105996.	5.6	17
7	Triple diffusion of species in fluid regime using tangent hyperbolic rheology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 775-785.	3.6	8
8	Thermal performance of micro-polymers containing nano-solid structures during transport phenomenon. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 1323-1333.	3.6	5
9	Investigation on the impact of thermal performance of fluid due to hybrid nano-structures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 729-737.	3.6	19
10	Computational study on the effects of variable viscosity of micropolar liquids on heat transfer in a channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 3269-3279.	3.6	3
11	Computational study on transport of thermal energy and mass species in power law rheological fluid with hybrid nanostructures in the presence of chemical reaction. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105022.	5.6	3
12	Unsteady heat transfer in colloidal suspension containing hybrid nanostructures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 421-429.	3.6	6
13	Numerical study of heat and mass transfer in MHD flow of nanofluid in a porous medium with Soret and Dufour effects. <i>Heat Transfer</i> , 2021, 50, 4501-4515.	3.0	20
14	Heat Transfer in Nanomaterial Suspension (CuO and Al ₂ O ₃) Using KKL Model. <i>Coatings</i> , 2021, 11, 417.	2.6	21
15	Numerical investigation on optimization of thermal analysis due to immersion of hybrid nanostructures in a fluid of shear dependent viscosity using the finite element method. <i>Heat Transfer</i> , 2021, 50, 5588-5606.	3.0	4
16	Cattaneo-Christov heat flux theory and thermal enhancement in hybrid nano Oldroyd-B rheological fluid in the presence of mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105344.	5.6	26
17	Thermal and solutal analysis in power law fluid under non-Fourier's diffusion conditions. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105331.	5.6	12
18	Numerical thermal study on performance of hybrid nano-Williamson fluid with memory effects using novel heat flux model. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101070.	5.7	9

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19	Three dimensional heat transfer in the Carreau-Yasuda hybrid nanofluid with Hall and ion slip effects. <i>Physica Scripta</i> , 2021, 96, 125215.	2.5	13
20	Non-Fourier thermal and mass transport in hybrid nano-Williamson fluid under chemical reaction in Forchheimer porous medium. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105536.	5.6	17
21	An enhancement of energy transport and mass in hybrid nanofluid under magnetic field and temperature and mass concentration gradients. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101182.	5.7	6
22	Numerical study on thermal enhancement in hyperbolic tangent fluid with dust and hybrid nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105535.	5.6	19
23	Thermophysical properties of chemotactic microorganisms in bio-convective peristaltic rheology of nano-liquid with slippage, Joule heating and viscous dissipation. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101285.	5.7	35
24	Numerical study of thermal and mass enhancement in the flow of Carreau-Yasuda fluid with hybrid nanoparticles. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101256.	5.7	20
25	Comparative analysis on the roles of different nanoparticles on mixed convection heat transfer in Newtonian fluid in Darcy-Forchheimer porous space subjected to convectively heated boundary. <i>International Communications in Heat and Mass Transfer</i> , 2021, 128, 105580.	5.6	13
26	Thermal enhancement in coolant using novel hybrid nanoparticles with mass transport. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101467.	5.7	13
27	Role of Variable Conductance on Heat and Mass Transport Mechanism Using Generalized Theory. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	1
28	Unsteady heat transfer enhancement in Williamson fluid in Darcy-Forchheimer porous medium under non-Fourier condition of heat flux. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101647.	5.7	24
29	Role of hybrid nanoparticles in thermal performance of Sutterby fluid, the ethylene glycol. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 537, 122447.	2.6	57
30	Numerical study on the impact of variable diffusion co-efficients and chemical reaction on transport phenomenon in nonlinear axisymmetric flow. <i>Physica Scripta</i> , 2020, 95, 015203.	2.5	1
31	Combined effects of partial slip and variable diffusion coefficient on mass and heat transfer subjected to chemical reaction. <i>Physica Scripta</i> , 2020, 95, 035222.	2.5	23
32	Three-dimensional heat transfer in nonlinear flow: a FEM computational approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2519-2528.	3.6	15
33	Study of transport phenomenon in Carreau fluid using Cattaneo-Christov heat flux model with temperature dependent diffusion coefficients. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 554, 123921.	2.6	60
34	Numerical study on enhancement of heat transfer in hybrid nano-micropolar fluid. <i>Physica Scripta</i> , 2020, 95, 045201.	2.5	35
35	Double diffusion in Carreau liquid suspended with hybrid nanoparticles in the presence of heat generation and chemical reaction. <i>International Communications in Heat and Mass Transfer</i> , 2020, 119, 104932.	5.6	19
36	Influence of hybrid nano-structures on thermal performance of shear rate dependent viscosity fluid over a heated rotating cone with Hall and ion slip currents. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, , 1.	3.6	1

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37	Influence of Chemical Reaction on Heat and Mass Transfer in MHD Radiative Flow due to Non-Coaxial Rotations of Disk and Fluid at Infinity. <i>Theoretical Foundations of Chemical Engineering</i> , 2020, 54, 664-674.	0.7	2
38	Role of hybrid nanostructures and dust particles on transport of heat energy in micropolar fluid with memory effects. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, , 1.	3.6	2
39	Simultaneous impact of hybrid nano and dust particles on enhancement of heat transfer in fluid with micro-rotation and thermal memory effects. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104871.	5.6	8
40	Impact of monocity and hybridity of nano-structures on thermal performance of micropolar fluid with novel heat flux theory: the Cattaneo-Christov heat flux theory. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8618-8626.	5.8	22
41	Thermal performance of magnetohydrodynamic complex fluid using nano and hybrid nanoparticles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 553, 124345.	2.6	34
42	An enhancement of thermal performance of ethylene glycol by nano and hybrid nanoparticles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 551, 124527.	2.6	47
43	Numerical investigation on transport of momenta and energy in micropolar fluid suspended with dusty, mono and hybrid nano-structures. <i>AIP Advances</i> , 2020, 10, .	1.3	28
44	Influence of Chemical Reaction on Mass Transport in Yield Stress Exhibiting Flow Regime. <i>Theoretical Foundations of Chemical Engineering</i> , 2020, 54, 1327-1339.	0.7	3
45	Computational study of chemical reactions during heat and mass transfer in magnetized partially ionized nanofluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	29
46	Thermal performance of partially ionized Eyring-Powell liquid: a theoretical approach. <i>Physica Scripta</i> , 2019, 94, 125209.	2.5	6
47	An enhancement in thermal performance of partially ionized fluid due to hybrid nano-structures exposed to magnetic field. <i>AIP Advances</i> , 2019, 9, .	1.3	18
48	Heat transfer in a permeable cavity filled with a ferrofluid under electric force and radiation effects. <i>AIP Advances</i> , 2019, 9, .	1.3	15
49	Finite Element Study of Flow of Partially Ionized Fluid Containing Nanoparticles. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 10257-10268.	3.0	17
50	Influence of thermal properties on temperature of fluid with micro-structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 531, 121494.	2.6	8
51	Investigation of enhancement of heat transfer in Sutterby nanofluid using Koo-Kleinstreuer and Li (KKL) correlations and Cattaneo-Christov heat flux model. <i>Physica Scripta</i> , 2019, 94, 115213.	2.5	28
52	Impact of temperature dependent diffusion coefficients on heat and mass transport in viscoelastic liquid using generalized Fourier theory. <i>Physica Scripta</i> , 2019, 94, 115206.	2.5	24
53	Numerical study of dispersion of nanoparticles in magnetohydrodynamic liquid with Hall and ion slip currents. <i>AIP Advances</i> , 2019, 9, .	1.3	43
54	Thermal analysis for hybrid nanofluid past a cylinder exposed to magnetic field. <i>AIP Advances</i> , 2019, 9, .	1.3	30

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55	Effects of Generative/Destructive Chemical Reaction on Mass Transport in Williamson Liquid with Variable Thermophysical Properties. <i>Journal of Engineering Thermophysics</i> , 2019, 28, 591-602.	1.4	5
56	Computational fluid dynamic simulations for dispersion of nanoparticles in a magnetohydrodynamic liquid: a Galerkin finite element method. <i>RSC Advances</i> , 2018, 8, 38324-38335.	3.6	35
57	Three-dimensional heat transfer in the mixture of nanoparticles and micropolar MHD plasma with Hall and ion slip effects. <i>AIP Advances</i> , 2018, 8, .	1.3	60
58	Casson Fluid Flow Due to Non-Coaxial Rotation of a Porous Disk and the Fluid at Infinity Through a Porous Medium. <i>Journal of Applied Mechanics and Technical Physics</i> , 2018, 59, 601-607.	0.5	6
59	Investigation of variable thermo-physical properties of viscoelastic rheology: A Galerkin finite element approach. <i>AIP Advances</i> , 2018, 8, .	1.3	30
60	Galerkin Finite Element Study on the Effects of Variable Thermal Conductivity and Variable Mass Diffusion Conductance on Heat and Mass Transfer. <i>Communications in Theoretical Physics</i> , 2018, 70, 049.	2.5	58
61	Temperature and concentration gradient effects on heat and mass transfer in micropolar fluid. <i>Pramana - Journal of Physics</i> , 2018, 91, 1.	1.8	17
62	Shape effect of nanosize particles in unsteady mixed convection flow of nanofluid over disk with entropy generation. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017, 231, 871-879.	2.5	71
63	Finite element study of three dimensional radiative nano-plasma flow subject to Hall and ion slip currents. <i>Results in Physics</i> , 2017, 7, 4111-4122.	4.1	49
64	Nonlinear Flow of Third-Grade Fluid between Stretching-Shrinking Sheets. <i>Journal of Aerospace Engineering</i> , 2016, 29, 04015062.	1.4	2
65	Melting heat transfer in an axisymmetric stagnation-point flow of the Jeffrey fluid. <i>Journal of Applied Mechanics and Technical Physics</i> , 2016, 57, 308-316.	0.5	8
66	NEWTONIAN HEATING, THERMAL-DIFFUSION AND DIFFUSION-THERMO EFFECTS IN AN AXISYMMETRIC FLOW OF A JEFFERY FLUID OVER A STRETCHING SURFACE. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 555-561.	1.3	25
67	Axisymmetric Stagnation-Point Flow of Nanofluid Over a Stretching Surface. <i>Advances in Applied Mathematics and Mechanics</i> , 2014, 6, 220-232.	1.2	14
68	Mixed Convection Three-Dimensional Flow in the Presence of Hall and Ion-Slip Effects. <i>Journal of Heat Transfer</i> , 2013, 135, .	2.1	9
69	Mixed Convection Three-dimensional Flow with Hall and Ion-slip Effects. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2013, 14, 167-177.	1.0	20
70	Dufour and Soret Effects in an Axisymmetric Stagnation Point Flow of Second Grade Fluid with Newtonian Heating. <i>Journal of Mechanics</i> , 2013, 29, 27-34.	1.4	14
71	Unsteady axisymmetric flow of a micropolar fluid between the stretching surfaces. <i>Quaestiones Mathematicae</i> , 2013, 36, 463-476.	0.6	1
72	Magnetohydrodynamic axisymmetric flow of a third-grade fluid between two porous disks. <i>Brazilian Journal of Chemical Engineering</i> , 2013, 30, 599-609.	1.3	36

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73	Dufour and Soret effects on MHD flow of viscous fluid between radially stretching sheets in porous medium. Applied Mathematics and Mechanics (English Edition), 2012, 33, 1403-1418.	3.6	20
74	Axisymmetric magnetohydrodynamic flow of Jeffrey fluid over a rotating disk. International Journal for Numerical Methods in Fluids, 2012, 70, 764-774.	1.6	15
75	MHD axisymmetric flow of third grade fluid between porous disks with heat transfer. Applied Mathematics and Mechanics (English Edition), 2012, 33, 749-764.	3.6	49
76	Heat Transfer Analysis on Axisymmetric Mhd Flow of a Micropolar Fluid Between the Radially Stretching Sheets. Journal of Mechanics, 2011, 27, 607-617.	1.4	4
77	Axisymmetric magnetohydrodynamic flow of micropolar fluid between unsteady stretching surfaces. Applied Mathematics and Mechanics (English Edition), 2011, 32, 361-374.	3.6	26
78	Thermal-diffusion and diffusion-thermo effects on axisymmetric flow of a second grade fluid. International Journal of Heat and Mass Transfer, 2011, 54, 3031-3041.	4.8	38
79	Hall and ionâ€slip effects on threeâ€dimensional flow of a second grade fluid. International Journal for Numerical Methods in Fluids, 2011, 66, 183-193.	1.6	24
80	Soret and Dufour effects on the mixed convection flow of a second grade fluid subject to Hall and ionâ€slip currents. International Journal for Numerical Methods in Fluids, 2011, 67, 1073-1099.	1.6	32
81	Unsteady stagnation point flow of viscous fluid caused by an impulsively rotating disk. Journal of the Taiwan Institute of Chemical Engineers, 2011, 42, 41-49.	5.3	46
82	MHD Squeezing Flow of a Micropolar Fluid Between Parallel Disks. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	25
83	Flow of Magnetohydrodynamic Micropolar Fluid Induced by Radially Stretching Sheets. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2011, 66, 53-60.	1.5	2
84	Effect of heat transfer on the flow of a secondâ€grade fluid in divergent/convergent channel. International Journal for Numerical Methods in Fluids, 2010, 64, 761-776.	1.6	8
85	Magnetohydrodynamic Three-Dimensional Flow of a Second-Grade Fluid with Heat Transfer. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 683-691.	1.5	9
86	Effect of Heat Transfer on Magnetohydrodynamic Axisymmetric Flow Between Two Stretching Sheets. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 961-968.	1.5	6
87	The effect of thermal radiation on the flow of a second grade fluid. Computers and Mathematics With Applications, 2009, 58, 369-379.	2.7	45
88	Triple diffusion with heat transfer under different effects on magnetized hyperbolic tangent nanofluid flow. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210791.	2.5	7