

# Shafqat Hussain

## List of Publications by Year in descending order

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102  
papers

2,676  
citations

193469

27  
h-index

242587

44  
g-index

105  
all docs

105  
docs citations

105  
times ranked

1490  
citing authors



#	ARTICLE	IF	CITATIONS
19	Effect of viscous dissipation and Joule heating on MHD radiative tangent hyperbolic nanofluid with convective and slip conditions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.7	46
20	Magnetoconvection and Entropy Analysis in T-Shaped Porous Enclosure Using Finite Element Method. Journal of Thermophysics and Heat Transfer, 2020, 34, 203-214.	1.6	38
21	Impact of fins and inclined magnetic field in double lid-driven cavity with Cu-water nanofluid. International Journal of Thermal Sciences, 2021, 161, 106707.	4.9	38
22	An efficient and stable finite element solver of higher order in space and time for nonstationary incompressible flow. International Journal for Numerical Methods in Fluids, 2013, 73, 927-952.	1.7	37
23	Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. Applied Mathematics and Mechanics (English Edition), 2022, 43, 447-466.	3.6	37
24	Impact of double stratification and magnetic field in mixed convective radiative flow of Maxwell nanofluid. Journal of Molecular Liquids, 2016, 220, 870-878.	5.0	36
25	Impact of magnetic field and entropy generation of Casson fluid on double diffusive natural convection in staggered cavity. International Communications in Heat and Mass Transfer, 2021, 127, 105520.	5.7	32
26	Impacts of variable thermal conductivity on stagnation point boundary layer flow past a Riga plate with variable thickness using generalized Fourier's law. Results in Physics, 2018, 9, 303-312.	4.2	31
27	Three dimensional MHD upper-convected Maxwell nanofluid flow with nonlinear radiative heat flux. AEJ - Alexandria Engineering Journal, 2018, 57, 1917-1925.	6.7	31
28	Numerical simulation of magnetohydrodynamic Jeffrey nanofluid flow and heat transfer over a stretching sheet considering Joule heating and viscous dissipation. AIP Advances, 2018, 8, .	1.3	31
29	Steady natural convection in open cavities filled with a porous medium utilizing Buongiorno's nanofluid model. International Journal of Mechanical Sciences, 2019, 157-158, 692-702.	6.9	30
30	Higher order Galerkin time discretizations and fast multigrid solvers for the heat equation. Journal of Numerical Mathematics, 2011, 19, .	3.6	28
31	Double diffusive nanofluid flow in a duct with cavity heated from below. International Journal of Mechanical Sciences, 2017, 131-132, 535-545.	6.9	28
32	MHD tangent hyperbolic nanofluid with chemical reaction, viscous dissipation and Joule heating effects. AIP Advances, 2019, 9, .	1.3	28
33	Natural convection of a water-based suspension containing nano-encapsulated phase change material in a porous grooved cavity. Journal of Energy Storage, 2022, 51, 104589.	8.3	28
34	Entropy formation analysis of MHD boundary layer flow of nanofluid over a porous shrinking wall. Physica A: Statistical Mechanics and Its Applications, 2019, 536, 122608.	2.6	27
35	Irreversibility analysis for the natural convection of Casson fluid in an inclined porous cavity under the effects of magnetic field and viscous dissipation. International Journal of Thermal Sciences, 2022, 179, 107699.	4.9	27
36	Mixed convection flow with non-uniform heat source/sink in a doubly stratified magnetonanofluid. AIP Advances, 2016, 6, .	1.3	26

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37	MHD mixed convection of $\text{Al}_2\text{O}_3$ - $\text{Cu}$ water hybrid nanofluid in a wavy channel with incorporated fixed cylinder. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2219-2233.	3.6	26
38	MHD Stagnation Point Flow of Williamson Fluid over a Stretching Cylinder with Variable Thermal Conductivity and Homogeneous/Heterogeneous Reaction. Communications in Theoretical Physics, 2017, 67, 688.	2.4	25
39	MHD effects and heat transfer for the UCM fluid along with Joule heating and thermal radiation using Cattaneo-Christov heat flux model. AIP Advances, 2016, 6, .	1.3	24
40	Entropy analysis of Hall current and thermal radiation influenced by cilia with single- and multi-walled carbon nanotubes. Bulletin of Materials Science, 2019, 42, 1.	1.7	24
41	Impact of double-diffusive convection and motile gyrotactic microorganisms on magnetohydrodynamics bioconvection tangent hyperbolic nanofluid. Open Physics, 2020, 18, 74-88.	1.7	24
42	Impact of power law fluid and magnetic field on double diffusive mixed convection in staggered porous cavity considering Dufour and Soret effects. International Communications in Heat and Mass Transfer, 2021, 121, 105075.	5.7	23
43	Entropy generation during peristaltically flowing nanofluid in an axisymmetric channel with flexible walls. Physica Scripta, 2020, 95, 035206.	2.5	22
44	A Note on Accurate and Efficient Higher Order Galerkin Time Stepping Schemes for the Nonstationary Stokes Equations. The Open Numerical Methods Journal, 2012, 4, 35-45.	0.5	22
45	Numerical study of MHD micropolar Carreau nanofluid in the presence of induced magnetic field. AIP Advances, 2018, 8, .	1.3	21
46	Entropy generation and unsteady Casson fluid flow squeezing between two parallel plates subject to Cattaneo-Christov heat and mass flux. European Physical Journal Plus, 2019, 134, 1.	2.6	21
47	Impact of Temperature-Dependent Heat Source/Sink and Variable Species Diffusivity on Radiative Reiner-Philippoff Fluid. Mathematical Problems in Engineering, 2020, 2020, 1-16.	1.2	21
48	Entropy Formation Analysis for the Peristaltic Motion of Ferrofluids in the Presence of Joule Heating and Fluid Friction Phenomena in a Plumb Duct. Journal of Nanofluids, 2019, 8, 1305-1313.	2.9	21
49	Impact of inclined magnetic field and power law fluid on double diffusive mixed convection in lid-driven curvilinear cavity. International Communications in Heat and Mass Transfer, 2021, 127, 105549.	5.7	20
50	Hydrodynamic forces and heat transfer of nanofluid forced convection flow around a rotating cylinder using finite element method: The impact of nanoparticles. International Communications in Heat and Mass Transfer, 2019, 108, 104310.	5.7	18
51	Mixed convection and entropy production in a nanofluid-filled closed space with inclined magnetic field. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1735-1755.	3.6	18
52	Impact of Non-Uniform Heat Source/Sink on Magnetohydrodynamic Maxwell Nanofluid Flow Over a Convectively Heated Stretching Surface with Chemical Reaction. Journal of Nanofluids, 2019, 8, 795-805.	2.9	18
53	Physiological flow of Carreau fluid due to ciliary motion. AIP Advances, 2016, 6, .	1.3	17
54	On MHD 3D upper convected Maxwell fluid flow with thermophoretic effect using nonlinear radiative heat flux. Canadian Journal of Physics, 2018, 96, 1-10.	1.1	17

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55	Impact of Periodic Magnetic Field on Entropy Generation and Mixed Convection. Journal of Thermophysics and Heat Transfer, 2018, 32, 999-1012.	1.6	17
56	Magnetohydrodynamic flow and heat transfer of ferrofluid in a channel with non-symmetric cavities. Journal of Thermal Analysis and Calorimetry, 2020, 140, 811-823.	3.6	17
57	Mixed bioconvection flow of Ag-MgO/water in the presence of oxytactic bacteria and inclined periodic magnetic field. International Communications in Heat and Mass Transfer, 2022, 134, 106015.	5.7	17
58	Numerical Study of Three Dimensional Mixed Convective Maxwell Nanofluid Flow Over a Stretching Surface with Non-Linear Thermal Radiation and Convective Boundary Conditions. Journal of Nanofluids, 2019, 8, 160-170.	2.9	16
59	Numerical study focusing on the entropy analysis of MHD squeezing flow of a nanofluid model using Cattaneo-Christov theory. AIP Advances, 2018, 8, .	1.3	15
60	Impinging jet into an open trapezoidal cavity partially filled with a porous layer. International Communications in Heat and Mass Transfer, 2020, 118, 104870.	5.7	14
61	Double diffusive buoyancy induced convection in stepwise open porous cavities filled nanofluid. International Communications in Heat and Mass Transfer, 2020, 119, 104949.	5.7	14
62	Effect of Thermal Radiation and Variable Thermal Conductivity on Magnetohydrodynamics Squeezed Flow of Carreau Fluid Over a Sensor Surface. Journal of Nanofluids, 2019, 8, 806-816.	2.9	14
63	Investigation of free convection in micropolar nanofluid with induced magnetic field. European Physical Journal Plus, 2019, 134, 1.	2.6	13
64	Slip effect on mixed convective flow and heat transfer of magnetized UCM fluid through a porous medium in consequence of novel heat flux model. Results in Physics, 2021, 20, 103749.	4.2	13
65	Thermally Radiative Rotating Magneto-Nanofluid Flow over an Exponential Sheet with Heat Generation and Viscous Dissipation: A Comparative Study. Communications in Theoretical Physics, 2018, 69, 317.	2.4	11
66	MHD stagnation point flow and heat transfer in viscoelastic fluid with Cattaneo-Christov heat flux model. Neural Computing and Applications, 2018, 30, 2979-2986.	5.7	11
67	Mixed convective magnetonanofluid flow over a backward facing step and entropy generation using extended Darcy-Brinkman-Forchheimer model. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3183-3203.	3.6	11
68	Exact solution of stagnation point flow of MHD $CuH_2O$ nanofluid induced by an exponential stretching sheet with thermal conductivity. Physica Scripta, 2020, 95, 025207.	2.5	11
69	Double Diffusive Natural Convection in a Square Cavity Filled with a Porous Media and a Power Law Fluid Separated by a Wavy Interface. Mathematics, 2022, 10, 1060.	2.3	11
70	Energy storage performance and irreversibility analysis of a water-based suspension containing nano-encapsulated phase change materials in a porous staggered cavity. Journal of Energy Storage, 2022, 53, 104975.	8.3	11
71	MHD Mixed Convection and Entropy Analysis of Non-Newtonian Hybrid Nanofluid in a Novel Wavy Elbow-Shaped Cavity with a Quarter Circle Hot Block and a Rotating Cylinder. Experimental Techniques, 2023, 47, 17-36.	1.6	10
72	Application of Fourier transform to MHD flow over an accelerated plate with partial-slippage. AIP Advances, 2014, 4, .	1.3	8

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73	Study of micropolar nanofluids with power-law spin gradient viscosity model by the Keller box method. Canadian Journal of Physics, 2020, 98, 16-27.	1.1	8
74	Conjugate Natural Convection of a Hybrid Nanofluid in a Cavity Filled with Porous and Non-Newtonian Layers: The Impact of the Power Law Index. Mathematics, 2022, 10, 2044.	2.3	8
75	Numerical modeling of magnetohydrodynamic thermosolutal free convection of power law fluids in a staggered porous enclosure. Sustainable Energy Technologies and Assessments, 2022, 53, 102395.	2.9	8
76	Impact of wavy porous layer on the hydrodynamic forces and heat transfer of hybrid nanofluid flow in a channel with cavity under the effect of partial magnetic field. Journal of Non-Equilibrium Thermodynamics, 2023, 48, 255-269.	4.2	8
77	Higher Order Galerkin Time Discretization for Nonstationary Incompressible Flow. , 2013, , 509-517.		7
78	Mixed convection of ferrofluids in a square enclosure with obstacles: Effect of isoâ€perimetric shapes. Numerical Methods for Partial Differential Equations, 2023, 39, 2378-2399.	3.7	7
79	Impact of induced magnetic field on free convective flow of kerosene/water based single and multiwalled carbon nanotubes. AIP Advances, 2018, 8, .	1.3	6
80	Thermal stratification effects on mixed convective Maxwell fluid flow with variable thermal conductivity and homogeneous/heterogeneous reactions. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.7	6
81	Stability Analysis of the Rhomboidal Restricted Six-Body Problem. Advances in Astronomy, 2021, 2021, 1-15.	1.2	6
82	Effect of thermal radiation on MHD micropolar Carreau nanofluid with viscous dissipation, Joule heating and internal heating. Scientia Iranica, 2019, .	0.5	6
83	Physiological Flow of Jeffrey Six Constant Fluid Model due to Ciliary Motion. Communications in Theoretical Physics, 2016, 66, 701-708.	2.4	5
84	Control of combined convection in a nanofluid-filled lid-driven closed space via rectangular bar in the presence of magnetic field. Journal of Thermal Analysis and Calorimetry, 2019, 137, 289-306.	3.6	5
85	Numerical Solution of Rotating Flow of a Nanofluid Over a Stretching Surface in the Presence of Magnetic Field. Journal of Nanofluids, 2019, 8, 359-370.	2.9	5
86	ROLE OF MAXWELL VELOCITY AND SMOLUCHOWSKI TEMPERATURE JUMP SLIP BOUNDARY CONDITIONS TO NON-NEWTONIAN CARREAU FLUID. Frontiers in Heat and Mass Transfer, 0, 14, .	0.2	5
87	Impact of wavy porous layer on mixed convection flow of a hybrid nanofluid in an enclosure under the effect of partial magnetic field. Numerical Heat Transfer; Part A: Applications, 0, , 1-20.	2.1	5
88	Physiological breakdown of Jeffrey six constant nanofluid flow in an endoscope with nonuniform wall. AIP Advances, 2015, 5, 127143.	1.3	3
89	Investigation of MHD oxytactic microorganisms with NEPCMs in rectotrapezoidal enclosure with FEM: Applications to energy storage technologies. Journal of Magnetism and Magnetic Materials, 2024, 592, 171808.	2.3	3
90	Continuous Galerkin Petrov Time Discretization Scheme for the Solutions of the Chen System. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.3	2

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91	Magnetohydrodynamics nanofluid flow of shaped nanoparticles over a porous stretching wall and slip effect. <i>Numerical Methods for Partial Differential Equations</i> , 0, , .	3.7	2
92	Mixed Convection in Square Enclosure by Considering the Thermal Effect on Cylinder. <i>Journal of Thermophysics and Heat Transfer</i> , 2021, 35, 869-882.	1.6	2
93	Transport of MHD nanofluid in a stratified medium containing gyrotactic microorganisms due to a stretching sheet. <i>Scientia Iranica</i> , 2021, .	0.5	2
94	MHD Oblique Stagnation Point Flow of Nanofluid Over a Convective Stretching Surface. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 1724-1734.	0.5	2
95	Squeezed MHD tangent hyperbolic fluid flow across a sensor surface. <i>Heat Transfer</i> , 2022, 51, 5101-5113.	3.0	2
96	Transport Phenomena in Marangoni Driven Micropolar Alumina-Dihydrogen Oxide Nanofluid with Thermal Inertia. <i>Journal of Nanofluids</i> , 2018, 8, 1123-1132.	2.9	1
97	Impact of activation energy on magneto-bioconvection flow of oxytactic microorganisms with NePCM in complex shaped enclosure considering thermal radiations. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-23.	2.1	1
98	Integrating artificial intelligence in investigating magneto-bioconvection flow of oxytactic microorganisms and nano-enhanced phase change material in H-type cavity. <i>Thermal Science and Engineering Progress</i> , 2024, 49, 102497.	2.7	1
99	Squeezing Flow of Upper Convected Maxwell Nanofluid Subject to Entropy Generation and Cattaneo-Christov Double Diffusion. <i>Journal of Nanofluids</i> , 2019, 8, 420-429.	2.9	0
100	Mixed bioconvection of nanofluid of oxytactic bacteria through a porous cavity with inlet and outlet under periodic magnetic field using artificial intelligence based on LightGBM algorithm. <i>Thermal Science and Engineering Progress</i> , 2024, 50, 102589.	2.7	0
101	Thermal performance of double-diffusive nano-encapsulated phase change materials in a porous concentric octagonal annulus under the impact of periodic magnetic field and activation energy. <i>Journal of Energy Storage</i> , 2024, 98, 113026.	8.3	0
102	Cattaneo-Christov double diffusion model for the entropy analysis of a non-Darcian MHD Williamson nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-27.	2.1	0