

# Shafqat Hussain

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

1,507  
citations

21  
h-index

34  
g-index

95  
ext. papers

1,947  
ext. citations

3.1  
avg. IF

5.82  
L-index

#	Paper	IF	Citations
86	Double Diffusive Natural Convection in a Square Cavity Filled with a Porous Media and a Power Law Fluid Separated by a Wavy Interface. <i>Mathematics</i> , <b>2022</b> , 10, 1060	2.3	0
85	Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2022</b> , 43, 447-466	3.2	1
84	Mixed bioconvection flow of Ag-MgO/water in the presence of oxytactic bacteria and inclined periodic magnetic field. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 134, 106015	5.8	1
83	Magneto-bioconvection flow of hybrid nanofluid in the presence of oxytactic bacteria in a lid-driven cavity with a streamlined obstacle. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 134, 106029	5.8	3
82	Natural convection of a water-based suspension containing nano-encapsulated phase change material in a porous grooved cavity. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104589	7.8	2
81	Irreversibility analysis for the natural convection of Casson fluid in an inclined porous cavity under the effects of magnetic field and viscous dissipation. <i>International Journal of Thermal Sciences</i> , <b>2022</b> , 179, 107699	4.1	1
80	Impact of power law fluid and magnetic field on double diffusive mixed convection in staggered porous cavity considering Dufour and Soret effects. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 121, 105075	5.8	5
79	Impact of fins and inclined magnetic field in double lid-driven cavity with Cu-water nanofluid. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 161, 106707	4.1	13
78	Stability Analysis of the Rhomboidal Restricted Six-Body Problem. <i>Advances in Astronomy</i> , <b>2021</b> , 2021, 1-15	0.9	2
77	Numerical simulations of MHD mixed convection of hybrid nanofluid flow in a horizontal channel with cavity: Impact on heat transfer and hydrodynamic forces. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101321	5.6	14
76	Impact of inclined magnetic field and power law fluid on double diffusive mixed convection in lid-driven curvilinear cavity. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105549	5.8	4
75	Impact of magnetic field and entropy generation of Casson fluid on double diffusive natural convection in staggered cavity. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105520	5.8	9
74	Slip effect on mixed convective flow and heat transfer of magnetized UCM fluid through a porous medium in consequence of novel heat flux model. <i>Results in Physics</i> , <b>2021</b> , 20, 103749	3.7	6
73	Impact of Temperature-Dependent Heat Source/Sink and Variable Species Diffusivity on Radiative Reiner-Philippoff Fluid. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-16	1.1	5
72	Impact of double-diffusive convection and motile gyrotactic microorganisms on magnetohydrodynamics bioconvection tangent hyperbolic nanofluid. <i>Open Physics</i> , <b>2020</b> , 18, 74-88	1.3	13
71	Magnetohydrodynamic flow and heat transfer of ferrofluid in a channel with non-symmetric cavities. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 140, 811-823	4.1	10
70	Magnetoconvection and Entropy Analysis in T-Shaped Porous Enclosure Using Finite Element Method. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2020</b> , 34, 203-214	1.3	17

69	Entropy generation during peristaltically flowing nanofluid in an axisymmetric channel with flexible walls. <i>Physica Scripta</i> , <b>2020</b> , 95, 035206	2.6	10
68	Impinging jet into an open trapezoidal cavity partially filled with a porous layer. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 118, 104870	5.8	5
67	MHD mixed convection of ( $\text{Al}_2\text{O}_3$ ) $\text{Cu}$ -water hybrid nanofluid in a wavy channel with incorporated fixed cylinder. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 144, 2219	4.1	15
66	Double diffusive buoyancy induced convection in stepwise open porous cavities filled nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 119, 104949	5.8	6
65	Exact solution of stagnation point flow of MHD $\text{Cu}/\text{H}_2\text{O}$ nanofluid induced by an exponential stretching sheet with thermal conductivity. <i>Physica Scripta</i> , <b>2020</b> , 95, 025207	2.6	5
64	Study of micropolar nanofluids with power-law spin gradient viscosity model by the Keller box method. <i>Canadian Journal of Physics</i> , <b>2020</b> , 98, 16-27	1.1	3
63	Entropy formation analysis of MHD boundary layer flow of nanofluid over a porous shrinking wall. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 536, 122608	3.3	16
62	Hydrodynamic forces and heat transfer of nanofluid forced convection flow around a rotating cylinder using finite element method: The impact of nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , <b>2019</b> , 108, 104310	5.8	12
61	Entropy generation and unsteady Casson fluid flow squeezing between two parallel plates subject to Cattaneo-Christov heat and mass flux. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	12
60	Investigation of free convection in micropolar nanofluid with induced magnetic field. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	9
59	Mixed convective magnetonanofluid flow over a backward facing step and entropy generation using extended Darcy-Brinkman-Erlichheimer model. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 3183-3203	4.1	5
58	Steady natural convection in open cavities filled with a porous medium utilizing Buongiorno's nanofluid model. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 157-158, 692-702	5.5	21
57	Effect of viscous dissipation and Joule heating on MHD radiative tangent hyperbolic nanofluid with convective and slip conditions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2019</b> , 41, 1	2	24
56	Unsteady MHD forced convection over a backward facing step including a rotating cylinder utilizing $\text{Fe}_3\text{O}_4$ -water ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 484, 356-366	2.8	34
55	Magnetohydrodynamic stratified bioconvective flow of micropolar nanofluid due to gyrotactic microorganisms. <i>AIP Advances</i> , <b>2019</b> , 9, 025208	1.5	29
54	MHD tangent hyperbolic nanofluid with chemical reaction, viscous dissipation and Joule heating effects. <i>AIP Advances</i> , <b>2019</b> , 9, 025007	1.5	14
53	Entropy analysis of Hall current and thermal radiation influenced by cilia with single- and multi-walled carbon nanotubes. <i>Bulletin of Materials Science</i> , <b>2019</b> , 42, 1	1.7	9
52	Numerical Study of Three Dimensional Mixed Convective Maxwell Nanofluid Flow Over a Stretching Surface with Non-Linear Thermal Radiation and Convective Boundary Conditions. <i>Journal of Nanofluids</i> , <b>2019</b> , 8, 160-170	2.2	5

51	Effect of Thermal Radiation and Variable Thermal Conductivity on Magnetohydrodynamics Squeezed Flow of Carreau Fluid Over a Sensor Surface. <i>Journal of Nanofluids</i> , <b>2019</b> , 8, 806-816	2.2	8
50	Impact of Non-Uniform Heat Source/Sink on Magnetohydrodynamic Maxwell Nanofluid Flow Over a Convectively Heated Stretching Surface with Chemical Reaction. <i>Journal of Nanofluids</i> , <b>2019</b> , 8, 795-805	2.2	5
49	Entropy Formation Analysis for the Peristaltic Motion of Ferrofluids in the Presence of Joule Heating and Fluid Friction Phenomena in a Plumb Duct. <i>Journal of Nanofluids</i> , <b>2019</b> , 8, 1305-1313	2.2	11
48	Effect of thermal radiation on MHD micropolar Carreau nanofluid with viscous dissipation, Joule heating and internal heating. <i>Scientia Iranica</i> , <b>2019</b> , 0-0	1.5	4
47	Numerical Solution of Rotating Flow of a Nanofluid Over a Stretching Surface in the Presence of Magnetic Field. <i>Journal of Nanofluids</i> , <b>2019</b> , 8, 359-370	2.2	3
46	Mixed convection and entropy production in a nanofluid-filled closed space with inclined magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 137, 1735-1755	4.1	14
45	Control of combined convection in a nanofluid-filled lid-driven closed space via rectangular bar in the presence of magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 137, 289-306	4.1	4
44	Heat and mass transfer analysis of time-dependent tangent hyperbolic nanofluid flow past a wedge. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 1187-1198	2.3	36
43	Darcy-Forchheimer flow of Maxwell nanofluid flow with nonlinear thermal radiation and activation energy. <i>AIP Advances</i> , <b>2018</b> , 8, 035102	1.5	60
42	Numerical simulation of double diffusive mixed convective nanofluid flow and entropy generation in a square porous enclosure. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 122, 1283-1297	4.9	30
41	Impacts of variable thermal conductivity on stagnation point boundary layer flow past a Riga plate with variable thickness using generalized Fourier's law. <i>Results in Physics</i> , <b>2018</b> , 9, 303-312	3.7	16
40	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> , <b>2018</b> , 56, 484-501	3.5	45
39	Numerical study focusing on the entropy analysis of MHD squeezing flow of a nanofluid model using Cattaneo-Christov theory. <i>AIP Advances</i> , <b>2018</b> , 8, 055201	1.5	11
38	Thermally Radiative Rotating Magneto-Nanofluid Flow over an Exponential Sheet with Heat Generation and Viscous Dissipation: A Comparative Study. <i>Communications in Theoretical Physics</i> , <b>2018</b> , 69, 317	2.4	10
37	Numerical study of MHD micropolar carreau nanofluid in the presence of induced magnetic field. <i>AIP Advances</i> , <b>2018</b> , 8, 035219	1.5	11
36	MHD stagnation point flow and heat transfer in viscoelastic fluid with Cattaneo-Christov heat flux model. <i>Neural Computing and Applications</i> , <b>2018</b> , 30, 2979-2986	4.8	8
35	On MHD 3D upper convected Maxwell fluid flow with thermophoretic effect using nonlinear radiative heat flux. <i>Canadian Journal of Physics</i> , <b>2018</b> , 96, 1-10	1.1	12
34	Three dimensional MHD upper-convected Maxwell nanofluid flow with nonlinear radiative heat flux. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 1917-1925	6.1	19

33	Thermal stratification effects on mixed convective Maxwell fluid flow with variable thermal conductivity and homogeneous/heterogeneous reactions. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2018</b> , 40, 1	2	4
32	Impact of Periodic Magnetic Field on Entropy Generation and Mixed Convection. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2018</b> , 32, 999-1012	1.3	13
31	Numerical simulation of magnetohydrodynamic Jeffrey nanofluid flow and heat transfer over a stretching sheet considering Joule heating and viscous dissipation. <i>AIP Advances</i> , <b>2018</b> , 8, 065316	1.5	18
30	Impact of magnetic field in radiative flow of Casson nanofluid with heat and mass fluxes. <i>Thermal Science</i> , <b>2018</b> , 22, 137-145	1.2	2
29	Numerical study of magnetohydrodynamics and thermal radiation on Williamson nanofluid flow over a stretching cylinder with variable thermal conductivity. <i>AEJ - Alexandria Engineering Journal</i> , <b>2018</b> , 57, 3281-3289	6.1	41
28	Impact of induced magnetic field on free convective flow of kerosene/water based single and multiwalled carbon nanotubes. <i>AIP Advances</i> , <b>2018</b> , 8, 105130	1.5	2
27	Finite Element Solution for MHD Flow of Nanofluids with Heat and Mass Transfer through a Porous Media with Thermal Radiation, Viscous Dissipation and Chemical Reaction Effects. <i>Advances in Applied Mathematics and Mechanics</i> , <b>2017</b> , 9, 904-923	2.1	34
26	Mixed convection in alumina-water nanofluid filled lid-driven square cavity with an isothermally heated square blockage inside with magnetic field effect: Introduction. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 109, 397-409	4.9	56
25	Numerical simulation of MHD mixed convection in alumina/water nanofluid filled square porous cavity using KKL model: Effects of non-linear thermal radiation and inclined magnetic field. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 238, 485-498	6	48
24	MHD Stagnation Point Flow of Williamson Fluid over a Stretching Cylinder with Variable Thermal Conductivity and Homogeneous/Heterogeneous Reaction. <i>Communications in Theoretical Physics</i> , <b>2017</b> , 67, 688	2.4	18
23	Double diffusive nanofluid flow in a duct with cavity heated from below. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 131-132, 535-545	5.5	20
22	A numerical study of magnetohydrodynamics flow in Casson nanofluid combined with Joule heating and slip boundary conditions. <i>Results in Physics</i> , <b>2017</b> , 7, 3037-3048	3.7	54
21	Entropy generation analysis of mixed convective flow in an inclined channel with cavity with Al <sub>2</sub> O <sub>3</sub> -water nanofluid in porous medium. <i>International Communications in Heat and Mass Transfer</i> , <b>2017</b> , 89, 198-210	5.8	27
20	Boundary layer flow of magneto-micropolar nanofluid flow with Hall and ion-slip effects using variable thermal diffusivity. <i>Bulletin of the Polish Academy of Sciences: Technical Sciences</i> , <b>2017</b> , 65, 383-390		15
19	Entropy generation analysis in MHD mixed convection of hybrid nanofluid in an open cavity with a horizontal channel containing an adiabatic obstacle. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 114, 1054-1066	4.9	122
18	Effects of inclination angle on mixed convective nanofluid flow in a double lid-driven cavity with discrete heat sources. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 106, 847-860	4.9	37
17	MHD mixed convection and entropy generation of water/alumina nanofluid flow in a double lid driven cavity with discrete heating. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 419, 140-155	2.8	75
16	Physiological flow of Carreau fluid due to ciliary motion. <i>AIP Advances</i> , <b>2016</b> , 6, 035125	1.5	9

15	Mixed convection flow with non-uniform heat source/sink in a doubly stratified magnetonano fluid. <i>AIP Advances</i> , <b>2016</b> , 6, 065126	1.5	19
14	Physiological Flow of Jeffrey Six Constant Fluid Model due to Ciliary Motion. <i>Communications in Theoretical Physics</i> , <b>2016</b> , 66, 701-708	2.4	1
13	MHD effects and heat transfer for the UCM fluid along with Joule heating and thermal radiation using Cattaneo-Christov heat flux model. <i>AIP Advances</i> , <b>2016</b> , 6, 085103	1.5	16
12	Impact of double stratification and magnetic field in mixed convective radiative flow of Maxwell nanofluid. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 220, 870-878	6	33
11	A new three-dimensional chaotic system, its dynamical analysis and electronic circuit applications. <i>Optik</i> , <b>2016</b> , 127, 7062-7071	2.5	73
10	Physiological breakdown of Jeffrey six constant nanofluid flow in an endoscope with nonuniform wall. <i>AIP Advances</i> , <b>2015</b> , 5, 127143	1.5	0
9	Continuous Galerkin Petrov Time Discretization Scheme for the Solutions of the Chen System. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2015</b> , 10,	1.4	2
8	Efficient Newton-multigrid solution techniques for higher order space-time Galerkin discretizations of incompressible flow. <i>Applied Numerical Mathematics</i> , <b>2014</b> , 83, 51-71	2.5	39
7	Application of Fourier transform to MHD flow over an accelerated plate with partial-slippage. <i>AIP Advances</i> , <b>2014</b> , 4, 067104	1.5	5
6	An efficient and stable finite element solver of higher order in space and time for nonstationary incompressible flow. <i>International Journal for Numerical Methods in Fluids</i> , <b>2013</b> , 73, 927-952	1.9	24
5	Higher Order Galerkin Time Discretization for Nonstationary Incompressible Flow <b>2013</b> , 509-517		6
4	A Note on Accurate and Efficient Higher Order Galerkin Time Stepping Schemes for the Nonstationary Stokes Equations <b>2012</b> , 4, 35-45		19
3	Higher order Galerkin time discretizations and fast multigrid solvers for the heat equation. <i>Journal of Numerical Mathematics</i> , <b>2011</b> , 19,	3.4	19
2	Mixed Convection in Square Enclosure by Considering the Thermal Effect on Cylinder. <i>Journal of Thermophysics and Heat Transfer</i> , 1-14	1.3	1
1	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. <i>Experimental Techniques</i> , 1	1.4	2