Shafqat Hussain

List of Publications by Citations

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	Entropy generation analysis in MHD mixed convection of hybrid nanofluid in an open cavity with a horizontal channel containing an adiabatic obstacle. *International Journal of Heat and Mass Transfer*, **2017**, 114, 1054-1066	4.9	122
85	MHD mixed convection and entropy generation of water–alumina nanofluid flow in a double lid driven cavity with discrete heating. *Journal of Magnetism and Magnetic Materials*, **2016**, 419, 140-155	2.8	75
84	A new three-dimensional chaotic system, its dynamical analysis and electronic circuit applications. *Optik*, **2016**, 127, 7062-7071	2.5	73
83	Darcy-Forchheimer flow of Maxwell nanofluid flow with nonlinear thermal radiation and activation energy. *AIP Advances*, **2018**, 8, 035102	1.5	60
82	Mixed convection in alumina-water nanofluid filled lid-driven square cavity with an isothermally heated square blockage inside with magnetic field effect: Introduction. *International Journal of Heat and Mass Transfer*, **2017**, 109, 397-409	4.9	56
81	A numerical study of magnetohydrodynamics flow in Casson nanofluid combined with Joule heating and slip boundary conditions. *Results in Physics*, **2017**, 7, 3037-3048	3.7	54
80	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. *Journal of Molecular Liquids*, **2017**, 238, 485-498	6	48
79	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. *Chinese Journal of Physics*, **2018**, 56, 484-501	3.5	45
78	Numerical study of magnetohydrodynamics and thermal radiation on Williamson nanofluid flow over a stretching cylinder with variable thermal conductivity. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 3281-3289	6.1	41
77	Efficient Newton-multigrid solution techniques for higher order space–time Galerkin discretizations of incompressible flow. *Applied Numerical Mathematics*, **2014**, 83, 51-71	2.5	39
76	Effects of inclination angle on mixed convective nanofluid flow in a double lid-driven cavity with discrete heat sources. *International Journal of Heat and Mass Transfer*, **2017**, 106, 847-860	4.9	37
75	Heat and mass transfer analysis of time-dependent tangent hyperbolic nanofluid flow past a wedge. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 1187-1198	2.3	36
74	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. *Advances in Applied Mathematics and Mechanics*, **2017**, 9, 904-923	2.1	34
73	Unsteady MHD forced convection over a backward facing step including a rotating cylinder utilizing Fe3O4-water ferrofluid. *Journal of Magnetism and Magnetic Materials*, **2019**, 484, 356-366	2.8	34
72	Impact of double stratification and magnetic field in mixed convective radiative flow of Maxwell nanofluid. *Journal of Molecular Liquids*, **2016**, 220, 870-878	6	33
71	Numerical simulation of double diffusive mixed convective nanofluid flow and entropy generation in a square porous enclosure. *International Journal of Heat and Mass Transfer*, **2018**, 122, 1283-1297	4.9	30
70	Magnetohydrodynamic stratified bioconvective flow of micropolar nanofluid due to gyrotactic microorganisms. *AIP Advances*, **2019**, 9, 025208	1.5	29

69	Entropy generation analysis of mixed convective flow in an inclined channel with cavity with Al2O3-water nanofluid in porous medium. *International Communications in Heat and Mass Transfer*, **2017**, 89, 198-210	5.8	27
68	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	2	24
67	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	1.9	24
66	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	5.5	21
65	Double diffusive nanofluid flow in a duct with cavity heated from below. *International Journal of Mechanical Sciences*, **2017**, 131-132, 535-545	5.5	20
64	Three dimensional MHD upper-convected Maxwell nanofluid flow with nonlinear radiative heat flux. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 1917-1925	6.1	19
63	Higher order Galerkin time discretizations and fast multigrid solvers for the heat equation. *Journal of Numerical Mathematics*, **2011**, 19,	3.4	19
62	A Note on Accurate and Efficient Higher Order Galerkin Time Stepping Schemes for the Nonstationary Stokes Equations **2012**, 4, 35-45		19
61	Mixed convection flow with non-uniform heat source/sink in a doubly stratified magnetonanofluid. *AIP Advances*, **2016**, 6, 065126	1.5	19
60	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	18
59	Numerical simulation of magnetohydrodynamic Jeffrey nanofluid flow and heat transfer over a stretching sheet considering Joule heating and viscous dissipation. *AIP Advances*, **2018**, 8, 065316	1.5	18
58	Magnetoconvection and Entropy Analysis in T-Shaped Porous Enclosure Using Finite Element Method. *Journal of Thermophysics and Heat Transfer*, **2020**, 34, 203-214	1.3	17
57	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	3.3	16
56	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	3.7	16
55	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, 085103	1.5	16
54	Boundary layer flow of magneto-micropolar nanofluid flow with Hall and ion-slip effects using variable thermal diffusivity. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, **2017**, 65, 383-390		15
53	MHD mixed convection of (Al_2O_3)Cu/water hybrid nanofluid in a wavy channel with incorporated fixed cylinder. *Journal of Thermal Analysis and Calorimetry*, **2020**, 144, 2219	4.1	15
52	MHD tangent hyperbolic nanofluid with chemical reaction, viscous dissipation and Joule heating effects. *AIP Advances*, **2019**, 9, 025007	1.5	14

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	4.1	14
50	Numerical simulations of MHD mixed convection of hybrid nanofluid flow in a horizontal channel with cavity: Impact on heat transfer and hydrodynamic forces. *Case Studies in Thermal Engineering*, **2021**, 27, 101321	5.6	14
49	Impact of Periodic Magnetic Field on Entropy Generation and Mixed Convection. *Journal of Thermophysics and Heat Transfer*, **2018**, 32, 999-1012	1.3	13
48	Impact of double-diffusive convection and motile gyrotactic microorganisms on magnetohydrodynamics bioconvection tangent hyperbolic nanofluid. *Open Physics*, **2020**, 18, 74-88	1.3	13
47	Impact of fins and inclined magnetic field in double lid-driven cavity with Cu-water nanofluid. *International Journal of Thermal Sciences*, **2021**, 161, 106707	4.1	13
46	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	5.8	12
45	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	3.1	12
44	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	12
43	Numerical study focusing on the entropy analysis of MHD squeezing flow of a nanofluid model using Cattaneo-Christov theory. *AIP Advances*, **2018**, 8, 055201	1.5	11
42	Numerical study of MHD micropolar carreau nanofluid in the presence of induced magnetic field. *AIP Advances*, **2018**, 8, 035219	1.5	11
41	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	2.2	11
40	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	10
39	Magnetohydrodynamic flow and heat transfer of ferrofluid in a channel with non-symmetric cavities. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 811-823	4.1	10
38	Entropy generation during peristaltically flowing nanofluid in an axisymmetric channel with flexible walls. *Physica Scripta*, **2020**, 95, 035206	2.6	10
37	Investigation of free convection in micropolar nanofluid with induced magnetic field. *European Physical Journal Plus*, **2019**, 134, 1	3.1	9
36	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	9
35	Physiological flow of Carreau fluid due to ciliary motion. *AIP Advances*, **2016**, 6, 035125	1.5	9
34	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	5.8	9

33	MHD stagnation point flow and heat transfer in viscoelastic fluid with Cattaneo–Christov heat flux model. *Neural Computing and Applications*, **2018**, 30, 2979-2986	4.8	8
32	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	2.2	8
31	Higher Order Galerkin Time Discretization for Nonstationary Incompressible Flow **2013**, 509-517		6
30	Double diffusive buoyancy induced convection in stepwise open porous cavities filled nanofluid. *International Communications in Heat and Mass Transfer*, **2020**, 119, 104949	5.8	6
29	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	3.7	6
28	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	4.1	5
27	Impact of Temperature-Dependent Heat Source/Sink and Variable Species Diffusivity on Radiative Reiner–Philippoff Fluid. *Mathematical Problems in Engineering*, **2020**, 2020, 1-16	1.1	5
26	Application of Fourier transform to MHD flow over an accelerated plate with partial-slippage. *AIP Advances*, **2014**, 4, 067104	1.5	5
25	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	2.2	5
24	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	2.2	5
23	Impinging jet into an open trapezoidal cavity partially filled with a porous layer. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104870	5.8	5
22	Exact solution of stagnation point flow of MHD Cu–H2O nanofluid induced by an exponential stretching sheet with thermal conductivity. *Physica Scripta*, **2020**, 95, 025207	2.6	5
21	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	5.8	5
20	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	2	4
19	Effect of thermal radiation on MHD micropolar Carreau nanofluid with viscous dissipation, Joule heating and internal heating. *Scientia Iranica*, **2019**, 0-0	1.5	4
18	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	4.1	4
17	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	5.8	4
16	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	2.2	3

15	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	3
14	Magneto-bioconvection flow of hybrid nanofluid in the presence of oxytactic bacteria in a lid-driven cavity with a streamlined obstacle. *International Communications in Heat and Mass Transfer*, **2022**, 134, 106029	5.8	3
13	Continuous Galerkin Petrov Time Discretization Scheme for the Solutions of the Chen System. *Journal of Computational and Nonlinear Dynamics*, **2015**, 10,	1.4	2
12	Impact of magnetic field in radiative flow of Casson nanofluid with heat and mass fluxes. *Thermal Science*, **2018**, 22, 137-145	1.2	2
11	Impact of induced magnetic field on free convective flow of kerosene/water based single and multiwalled carbon nanotubes. *AIP Advances*, **2018**, 8, 105130	1.5	2
10	Stability Analysis of the Rhomboidal Restricted Six-Body Problem. *Advances in Astronomy*, **2021**, 2021, 1-15	0.9	2
9	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*,1	1.4	2
8	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	7.8	2
7	Mixed Convection in Square Enclosure by Considering the Thermal Effect on Cylinder. *Journal of Thermophysics and Heat Transfer*,1-14	1.3	1
6	Physiological Flow of Jeffrey Six Constant Fluid Model due to Ciliary Motion. *Communications in Theoretical Physics*, **2016**, 66, 701-708	2.4	1
5	Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. *Applied Mathematics and Mechanics (English Edition)*, **2022**, 43, 447-466	3.2	1
4	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	5.8	1
3	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	4.1	1
2	Physiological breakdown of Jeffrey six constant nanofluid flow in an endoscope with nonuniform wall. *AIP Advances*, **2015**, 5, 127143	1.5	0
1	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	0