

# Shafqat Hussain

## List of PR Articles by Year in descending order

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92

PR articles

2,927

PR citations

137335

29

PR h-index

157875

50

g-index

95

documents

3105

doc citations

150343

30

h-index

1364

citing authors

| #  | ARTICLE   | IF  | PR CITATIONS |
|----|---|-----|--------------|
| 1  | Effect of inclined magnetic field and chemical reaction on Casson fluid flow over a stretching surface with Cattaneo–Christov double diffusion. <i>International Journal of Modern Physics B</i> , 2025, 39, .  | 4.1 | 7            |
| 2  | 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> , 2024, 85, 2917-2939.                          | 2.5 | 9            |
| 3  | Investigation of MHD oxytactic microorganisms with NEPCMs in rectotrapezoidal enclosure with FEM: Applications to energy storage technologies. <i>Journal of Magnetism and Magnetic Materials</i> , 2024, 592, 171808.  | 2.8 | 37           |
| 4  | 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.                         | 2.8 | 13           |
| 5  | 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. | 2.8 | 8            |
| 6  | 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.                 | 8.8 | 21           |
| 7  | Cattaneo–Christov double diffusion model for the entropy analysis of a non-Darcian MHD Williamson nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2024, 85, 3147-3173.  | 2.5 | 2            |
| 8  | Magneto-hydrodynamics nanofluid flow of shaped nanoparticles over a porous stretching wall and slip effect. <i>Numerical Methods for Partial Differential Equations</i> , 2023, 39, 866-889.  | 1.9 | 2            |
| 9  | Mixed convection of ferrofluids in a square enclosure with obstacles: Effect of iso-perimetric shapes. <i>Numerical Methods for Partial Differential Equations</i> , 2023, 39, 2378-2399.   | 1.9 | 11           |
| 10 | 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. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2023, 48, 255-269.                      | 3.9 | 20           |
| 11 | 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> , 2022, 47, 17-36.  | 1.4 | 15           |
| 12 | 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> , 2022, 10, 1060.   | 2.1 | 15           |
| 13 | Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 447-466.  | 4.2 | 58           |
| 14 | 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> , 2022, 134, 106015.   | 5.8 | 36           |
| 15 | 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> , 2022, 134, 106029.                                       | 5.8 | 61           |
| 16 | Natural convection of a water-based suspension containing nano-encapsulated phase change material in a porous grooved cavity. <i>Journal of Energy Storage</i> , 2022, 51, 104589.  | 8.8 | 39           |
| 17 | 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> , 2022, 179, 107699.                               | 5.1 | 45           |
| 18 | Conjugate Natural Convection of a Hybrid Nanofluid in a Cavity Filled with Porous and Non-Newtonian Layers: The Impact of the Power Law Index. <i>Mathematics</i> , 2022, 10, 2044.   | 2.1 | 11           |

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|----|---|-----|--------------|
| 19 | Energy storage performance and irreversibility analysis of a water-based suspension containing nano-encapsulated phase change materials in a porous staggered cavity. <i>Journal of Energy Storage</i> , 2022, 53, 104975.            | 8.8 | 15           |
| 20 | Numerical modeling of magnetohydrodynamic thermosolutal free convection of power law fluids in a staggered porous enclosure. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102395.                               | 2.6 | 11           |
| 21 | 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> , 2021, 121, 105075. | 5.8 | 37           |
| 22 | Impact of fins and inclined magnetic field in double lid-driven cavity with Cu <sup>2+</sup> water nanofluid. <i>International Journal of Thermal Sciences</i> , 2021, 161, 106707.   | 5.1 | 44           |
| 23 | Mixed Convection in Square Enclosure by Considering the Thermal Effect on Cylinder. <i>Journal of Thermophysics and Heat Transfer</i> , 2021, 35, 869-882.  | 1.9 | 3            |
| 24 | Stability Analysis of the Rhomboidal Restricted Six-Body Problem. <i>Advances in Astronomy</i> , 2021, 2021, 1-15.  | 1.0 | 6            |
| 25 | Transport of MHD nanofluid in a stratified medium containing gyrotactic microorganisms due to a stretching sheet. <i>Scientia Iranica</i> , 2021, .   | 0.5 | 2            |
| 26 | 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> , 2021, 27, 101321.           | 5.9 | 72           |
| 27 | 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> , 2021, 127, 105549.                       | 5.8 | 29           |
| 28 | 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> , 2021, 127, 105520.                        | 5.8 | 53           |
| 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. <i>Results in Physics</i> , 2021, 20, 103749.   | 4.2 | 20           |
| 30 | Exact solution of stagnation point flow of MHD Cu <sup>2+</sup> H <sub>2</sub> O nanofluid induced by an exponential stretching sheet with thermal conductivity. <i>Physica Scripta</i> , 2020, 95, 025207.                           | 2.6 | 15           |
| 31 | Study of micropolar nanofluids with power-law spin gradient viscosity model by the Keller box method. <i>Canadian Journal of Physics</i> , 2020, 98, 16-27.   | 1.8 | 9            |
| 32 | Magnetoconvection and Entropy Analysis in T-Shaped Porous Enclosure Using Finite Element Method. <i>Journal of Thermophysics and Heat Transfer</i> , 2020, 34, 203-214.   | 1.9 | 43           |
| 33 | Entropy generation during peristaltically flowing nanofluid in an axisymmetric channel with flexible walls. <i>Physica Scripta</i> , 2020, 95, 035206.  | 2.6 | 30           |
| 34 | Impinging jet into an open trapezoidal cavity partially filled with a porous layer. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104870.  | 5.8 | 22           |
| 35 | MHD mixed convection of Al <sub>2</sub> O <sub>3</sub> -Cu <sup>2+</sup> water hybrid nanofluid in a wavy channel with incorporated fixed cylinder. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 144, 2219-2233.        | 2.7 | 38           |
| 36 | Double diffusive buoyancy induced convection in stepwise open porous cavities filled nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 119, 104949.  | 5.8 | 18           |



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|----|---|-----|--------------|
| 55 | Effect of thermal radiation on MHD micropolar Carreau nanofluid with viscous dissipation, Joule heating and internal heating. <i>Scientia Iranica</i> , 2019, .   | 0.5 | 7            |
| 56 | Numerical Solution of Rotating Flow of a Nanofluid Over a Stretching Surface in the Presence of Magnetic Field. <i>Journal of Nanofluids</i> , 2019, 8, 359-370.  | 2.2 | 6            |
| 57 | Squeezing Flow of Upper Convected Maxwell Nanofluid Subject to Entropy Generation and Cattaneo-Christove Double Diffusion. <i>Journal of Nanofluids</i> , 2019, 8, 420-429.   | 2.2 | 0            |
| 58 | 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> , 2018, 122, 1283-1297.                            | 5.6 | 70           |
| 59 | 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> , 2018, 9, 303-312.                               | 4.2 | 35           |
| 60 | 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> , 2018, 56, 484-501. | 4.4 | 66           |
| 61 | Numerical study focusing on the entropy analysis of MHD squeezing flow of a nanofluid model using Cattaneo-Christov theory. <i>AIP Advances</i> , 2018, 8, .  | 1.2 | 17           |
| 62 | 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> , 2018, 69, 317.                          | 3.4 | 11           |
| 63 | Numerical study of MHD micropolar Carreau nanofluid in the presence of induced magnetic field. <i>AIP Advances</i> , 2018, 8, .   | 1.2 | 21           |
| 64 | On MHD 3D upper convected Maxwell fluid flow with thermophoretic effect using nonlinear radiative heat flux. <i>Canadian Journal of Physics</i> , 2018, 96, 1-10.   | 1.8 | 18           |
| 65 | Three dimensional MHD upper-convected Maxwell nanofluid flow with nonlinear radiative heat flux. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1917-1925.   | 6.5 | 36           |
| 66 | 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> , 2018, 57, 3281-3289.            | 6.5 | 97           |
| 67 | Impact of induced magnetic field on free convective flow of kerosene/water based single and multiwalled carbon nanotubes. <i>AIP Advances</i> , 2018, 8, .  | 1.2 | 6            |
| 68 | Impact of Periodic Magnetic Field on Entropy Generation and Mixed Convection. <i>Journal of Thermophysics and Heat Transfer</i> , 2018, 32, 999-1012.   | 1.9 | 21           |
| 69 | Numerical simulation of magnetohydrodynamic Jeffrey nanofluid flow and heat transfer over a stretching sheet considering Joule heating and viscous dissipation. <i>AIP Advances</i> , 2018, 8, .  | 1.2 | 36           |
| 70 | 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> , 2018, 137, 289-306.                            | 2.7 | 6            |
| 71 | Transport Phenomena in Marangoni Driven Micropolar Alumina-Dihydrogen Oxide Nanofluid with Thermal Inertia. <i>Journal of Nanofluids</i> , 2018, 8, 1123-1132.  | 2.2 | 1            |
| 72 | Impact of magnetic field in radiative flow of Casson nanofluid with heat and mass fluxes. <i>Thermal Science</i> , 2018, 22, 137-145.   | 1.0 | 2            |

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|----|---|-----|--------------|
| 73 | 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> , 2017, 9, 904-923. | 1.1 | 63           |
| 74 | 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> , 2017, 109, 397-409.     | 5.6 | 110          |
| 75 | 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> , 2017, 238, 485-498.       | 5.1 | 76           |
| 76 | 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> , 2017, 67, 688.   | 3.4 | 27           |
| 77 | Double diffusive nanofluid flow in a duct with cavity heated from below. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 535-545.  | 8.9 | 29           |
| 78 | A numerical study of magnetohydrodynamics flow in Casson nanofluid combined with Joule heating and slip boundary conditions. <i>Results in Physics</i> , 2017, 7, 3037-3048.  | 4.2 | 102          |
| 79 | 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> , 2017, 89, 198-210.         | 5.8 | 73           |
| 80 | 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> , 2017, 114, 1054-1066.                      | 5.6 | 223          |
| 81 | 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> , 2017, 106, 847-860.  | 5.6 | 58           |
| 82 | MHD stagnation point flow and heat transfer in viscoelastic fluid with Cattaneo-Christov heat flux model. <i>Neural Computing and Applications</i> , 2017, 30, 2979-2986.   | 4.0 | 12           |
| 83 | MHD Oblique Stagnation Point Flow of Nanofluid Over a Convective Stretching Surface. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 1724-1734.   | 0.1 | 2            |
| 84 | Impact of double stratification and magnetic field in mixed convective radiative flow of Maxwell nanofluid. <i>Journal of Molecular Liquids</i> , 2016, 220, 870-878.   | 5.1 | 40           |
| 85 | A new three-dimensional chaotic system, its dynamical analysis and electronic circuit applications. <i>Optik</i> , 2016, 127, 7062-7071.  | 3.0 | 85           |
| 86 | 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> , 2016, 419, 140-155.   | 2.8 | 121          |
| 87 | Application of Fourier transform to MHD flow over an accelerated plate with partial-slippage. <i>AIP Advances</i> , 2014, 4, .  | 1.2 | 8            |
| 88 | Efficient Newton-multigrid solution techniques for higher order space-time Galerkin discretizations of incompressible flow. <i>Applied Numerical Mathematics</i> , 2014, 83, 51-71.   | 2.2 | 76           |
| 89 | A Note on Accurate and Efficient Higher Order Galerkin Time Stepping Schemes for the Nonstationary Stokes Equations. <i>The Open Numerical Methods Journal</i> , 2012, 4, 35-45.  | 0.0 | 24           |
| 90 | Higher order Galerkin time discretizations and fast multigrid solvers for the heat equation. <i>Journal of Numerical Mathematics</i> , 2011, 19, .  | 3.2 | 29           |

| #  | ARTICLE  | IF  | PR<br>CITATIONS |
|----|--|-----|-----------------|
| 91 | ROLE OF MAXWELL VELOCITY AND SMOLUCHOWSKI TEMPERATURE JUMP SLIP BOUNDARY CONDITIONS TO NON-NEWTONIAN CARREAU FLUID. <i>Frontiers in Heat and Mass Transfer</i> , 0, 14, .                                | 0.4 | 6               |
| 92 | Impact of wavy porous layer on mixed convection flow of a hybrid nanofluid in an enclosure under the effect of partial magnetic field. <i>Numerical Heat Transfer; Part A: Applications</i> , 0, , 1-20. | 2.5 | 9               |