

Shafqat Hussain

List of Publications by Year in descending order

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102
papers

2,676
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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. | 2.3 | 3 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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> , 2023, 47, 17-36. | 1.6 | 10 |
| 6 | 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. | 3.7 | 7 |
| 7 | 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. | 4.2 | 8 |
| 8 | 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. | 2.3 | 11 |
| 9 | Conjugate natural convection of non-Newtonian hybrid nanofluid in wavy-shaped enclosure. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 447-466. | 3.6 | 37 |
| 10 | 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. | 5.7 | 17 |
| 11 | 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. | 8.3 | 28 |
| 12 | Squeezed MHD tangent hyperbolic fluid flow across a sensor surface. <i>Heat Transfer</i> , 2022, 51, 5101-5113. | 3.0 | 2 |
| 13 | 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. | 4.9 | 27 |
| 14 | 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. | 2.3 | 8 |
| 15 | 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. | 8.3 | 11 |
| 16 | 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. | 2.9 | 8 |
| 17 | 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> , 2021, 144, 2219-2233. | 3.6 | 26 |
| 18 | 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. | 5.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Impact of fins and inclined magnetic field in double lid-driven cavity with Cu ²⁺ water nanofluid. International Journal of Thermal Sciences, 2021, 161, 106707. | 4.9 | 38 |
| 20 | Mixed Convection in Square Enclosure by Considering the Thermal Effect on Cylinder. Journal of Thermophysics and Heat Transfer, 2021, 35, 869-882. | 1.6 | 2 |
| 21 | Stability Analysis of the Rhomboidal Restricted Six-Body Problem. Advances in Astronomy, 2021, 2021, 1-15. | 1.2 | 6 |
| 22 | Transport of MHD nanofluid in a stratified medium containing gyrotactic microorganisms due to a stretching sheet. Scientia Iranica, 2021, . | 0.5 | 2 |
| 23 | 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. | 5.8 | 47 |
| 24 | 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 |
| 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 | 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 |
| 27 | Exact solution of stagnation point flow of MHD Cu ²⁺ H ₂ O nanofluid induced by an exponential stretching sheet with thermal conductivity. Physica Scripta, 2020, 95, 025207. | 2.5 | 11 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | Entropy generation during peristaltically flowing nanofluid in an axisymmetric channel with flexible walls. Physica Scripta, 2020, 95, 035206. | 2.5 | 22 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Impact of double-diffusive convection and motile gyrotactic microorganisms on magnetohydrodynamics bioconvection tangent hyperbolic nanofluid. Open Physics, 2020, 18, 74-88. | 1.7 | 24 |
| 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 | 24 |

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|----|---|-----|-----------|
| 37 | Entropy formation analysis of MHD boundary layer flow of nanofluid over a porous shrinking wall. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 536, 122608. | 2.6 | 27 |
| 38 | 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> , 2019, 108, 104310. | 5.7 | 18 |
| 39 | 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> , 2019, 134, 1. | 2.6 | 21 |
| 40 | Investigation of free convection in micropolar nanofluid with induced magnetic field. <i>European Physical Journal Plus</i> , 2019, 134, 1. | 2.6 | 13 |
| 41 | Mixed convective magnetonanofluid flow over a backward facing step and entropy generation using extended Darcy-Brinkman-Forchheimer model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3183-3203. | 3.6 | 11 |
| 42 | Steady natural convection in open cavities filled with a porous medium utilizing Buongiorno's nanofluid model. <i>International Journal of Mechanical Sciences</i> , 2019, 157-158, 692-702. | 6.9 | 30 |
| 43 | 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> , 2019, 41, 1. | 1.7 | 46 |
| 44 | Unsteady MHD forced convection over a backward facing step including a rotating cylinder utilizing $\overline{\text{Fe}}$ ferrofluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 484, 356-366. | 2.3 | 65 |
| 45 | Magnetohydrodynamic stratified bioconvective flow of micropolar nanofluid due to gyrotactic microorganisms. <i>AIP Advances</i> , 2019, 9, . | 1.3 | 47 |
| 46 | MHD tangent hyperbolic nanofluid with chemical reaction, viscous dissipation and Joule heating effects. <i>AIP Advances</i> , 2019, 9, . | 1.3 | 28 |
| 47 | Mixed convection and entropy production in a nanofluid-filled closed space with inclined magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1735-1755. | 3.6 | 18 |
| 48 | 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> , 2019, 137, 289-306. | 3.6 | 5 |
| 49 | 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> , 2019, 383, 1187-1198. | 2.2 | 67 |
| 50 | 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> , 2019, 8, 160-170. | 2.9 | 16 |
| 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> , 2019, 8, 806-816. | 2.9 | 14 |
| 52 | 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> , 2019, 8, 795-805. | 2.9 | 18 |
| 53 | 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> , 2019, 8, 1305-1313. | 2.9 | 21 |
| 54 | Effect of thermal radiation on MHD micropolar Carreau nanofluid with viscous dissipation, Joule heating and internal heating. <i>Scientia Iranica</i> , 2019, . | 0.5 | 6 |

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|----|---|-----|-----------|
| 55 | 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. | 2.9 | 5 |
| 56 | 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. | 2.9 | 0 |
| 57 | Darcy-Forchheimer flow of Maxwell nanofluid flow with nonlinear thermal radiation and activation energy. <i>AIP Advances</i> , 2018, 8, . | 1.3 | 105 |
| 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. | 4.9 | 56 |
| 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 | 31 |
| 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. | 4.0 | 57 |
| 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, . | 1.3 | 15 |
| 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. | 2.4 | 11 |
| 63 | Numerical study of MHD micropolar carreau nanofluid in the presence of induced magnetic field. <i>AIP Advances</i> , 2018, 8, . | 1.3 | 21 |
| 64 | MHD stagnation point flow and heat transfer in viscoelastic fluid with Cattaneo-Christov heat flux model. <i>Neural Computing and Applications</i> , 2018, 30, 2979-2986. | 5.7 | 11 |
| 65 | 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. | 1.1 | 17 |
| 66 | Three dimensional MHD upper-convected Maxwell nanofluid flow with nonlinear radiative heat flux. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1917-1925. | 6.7 | 31 |
| 67 | 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. | 6.7 | 69 |
| 68 | Impact of induced magnetic field on free convective flow of kerosene/water based single and multiwalled carbon nanotubes. <i>AIP Advances</i> , 2018, 8, . | 1.3 | 6 |
| 69 | 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> , 2018, 40, 1. | 1.7 | 6 |
| 70 | Impact of Periodic Magnetic Field on Entropy Generation and Mixed Convection. <i>Journal of Thermophysics and Heat Transfer</i> , 2018, 32, 999-1012. | 1.6 | 17 |
| 71 | 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, . | 1.3 | 31 |
| 72 | 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 |

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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. | 1.2 | 47 |
| 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. | 4.9 | 93 |
| 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. | 5.0 | 60 |
| 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. | 2.4 | 25 |
| 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. | 6.9 | 28 |
| 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 | 90 |
| 79 | Entropy generation analysis of mixed convective flow in an inclined channel with cavity with Al ₂ O ₃ -water nanofluid in porous medium. <i>International Communications in Heat and Mass Transfer</i> , 2017, 89, 198-210. | 5.7 | 55 |
| 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. | 4.9 | 185 |
| 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. | 4.9 | 53 |
| 82 | 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 |
| 83 | Physiological flow of Carreau fluid due to ciliary motion. <i>AIP Advances</i> , 2016, 6, . | 1.3 | 17 |
| 84 | Mixed convection flow with non-uniform heat source/sink in a doubly stratified magnetonanofluid. <i>AIP Advances</i> , 2016, 6, . | 1.3 | 26 |
| 85 | Physiological Flow of Jeffrey Six Constant Fluid Model due to Ciliary Motion. <i>Communications in Theoretical Physics</i> , 2016, 66, 701-708. | 2.4 | 5 |
| 86 | 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> , 2016, 6, . | 1.3 | 24 |
| 87 | 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. | 5.0 | 36 |
| 88 | A new three-dimensional chaotic system, its dynamical analysis and electronic circuit applications. <i>Optik</i> , 2016, 127, 7062-7071. | 2.9 | 82 |
| 89 | 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. | 2.3 | 101 |
| 90 | Physiological breakdown of Jeffrey six constant nanofluid flow in an endoscope with nonuniform wall. <i>AIP Advances</i> , 2015, 5, 127143. | 1.3 | 3 |

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|-----|--|-----|-----------|
| 91 | Continuous Galerkin Petrov Time Discretization Scheme for the Solutions of the Chen System. Journal of Computational and Nonlinear Dynamics, 2015, 10, . | 1.3 | 2 |
| 92 | Application of Fourier transform to MHD flow over an accelerated plate with partial-slippage. AIP Advances, 2014, 4, . | 1.3 | 8 |
| 93 | Efficient Newton-multigrid solution techniques for higher order space-time Galerkin discretizations of incompressible flow. Applied Numerical Mathematics, 2014, 83, 51-71. | 2.2 | 65 |
| 94 | 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 |
| 95 | Higher Order Galerkin Time Discretization for Nonstationary Incompressible Flow. , 2013, , 509-517. | | 7 |
| 96 | 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 |
| 97 | Higher order Galerkin time discretizations and fast multigrid solvers for the heat equation. Journal of Numerical Mathematics, 2011, 19, . | 3.6 | 28 |
| 98 | Magneto-hydrodynamics nanofluid flow of shaped nanoparticles over a porous stretching wall and slip effect. Numerical Methods for Partial Differential Equations, 0, , . | 3.7 | 2 |
| 99 | 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 |
| 100 | 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 |
| 101 | Impact of activation energy on magneto-bioconvection flow of oxytactic microorganisms with NePCM in complex shaped enclosure considering thermal radiations. Numerical Heat Transfer; Part A: Applications, 0, , 1-23. | 2.1 | 1 |
| 102 | Cattaneo-Christov double diffusion model for the entropy analysis of a non-Darcian MHD Williamson nanofluid. Numerical Heat Transfer; Part A: Applications, 0, , 1-27. | 2.1 | 0 |