

# Zahir Shah

## List of Publications by Year in descending order

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271  
papers

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docs citations

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citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Effect of thermal radiation on magnetohydrodynamics nanofluid flow and heat transfer by means of two phase model. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 36-43.  | 1.0 | 712       |
| 2  | Numerical simulation for solidification in a LHTESS by means of nano-enhanced PCM. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 86, 25-41.  | 2.7 | 352       |
| 3  | Simulation of nanofluid heat transfer in presence of magnetic field: A review. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1203-1233.   | 2.5 | 339       |
| 4  | Numerical simulation of magnetic nanofluid natural convection in porous media. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 494-503.   | 0.9 | 336       |
| 5  | Simulation of MHD CuO-water nanofluid flow and convective heat transfer considering Lorentz forces. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 369, 69-80.  | 1.0 | 332       |
| 6  | Nanofluid flow and heat transfer between parallel plates considering Brownian motion using DTM. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 651-663.  | 3.4 | 306       |
| 7  | CuO-water nanofluid flow due to magnetic field inside a porous media considering Brownian motion. <i>Journal of Molecular Liquids</i> , 2018, 249, 921-929.   | 2.3 | 280       |
| 8  | Entropy generation of nanofluid in presence of magnetic field using Lattice Boltzmann Method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 417, 273-286.  | 1.2 | 272       |
| 9  | Magnetic field influence on nanofluid thermal radiation in a cavity with tilted elliptic inner cylinder. <i>Journal of Molecular Liquids</i> , 2017, 229, 137-147.  | 2.3 | 256       |
| 10 | Numerical simulation of MHD nanofluid flow and heat transfer considering viscous dissipation. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 212-222.   | 2.5 | 254       |
| 11 | Simulation of CuO-water nanofluid heat transfer enhancement in presence of melting surface. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 909-919.  | 2.5 | 248       |
| 12 | Simulation of nanofluid flow and natural convection in a porous media under the influence of electric field using CVFEM. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 772-781.                                 | 2.5 | 245       |
| 13 | Magnetohydrodynamic nanofluid forced convection in a porous lid driven cubic cavity using Lattice Boltzmann method. <i>Journal of Molecular Liquids</i> , 2017, 231, 555-565.   | 2.3 | 231       |
| 14 | Numerical investigation of nanofluid free convection under the influence of electric field in a porous enclosure. <i>Journal of Molecular Liquids</i> , 2018, 249, 1212-1221.   | 2.3 | 231       |
| 15 | Flow and convective heat transfer of a ferro-nanofluid in a double-sided lid-driven cavity with a wavy wall in the presence of a variable magnetic field. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 1186-1200. | 1.2 | 223       |
| 16 | Influence of Lorentz forces on nanofluid flow in a porous cylinder considering Darcy model. <i>Journal of Molecular Liquids</i> , 2017, 225, 903-912.   | 2.3 | 220       |
| 17 | Lattice Boltzmann method simulation for MHD non-Darcy nanofluid free convection. <i>Physica B: Condensed Matter</i> , 2017, 516, 55-71.   | 1.3 | 218       |
| 18 | Mesoscopic method for MHD nanofluid flow inside a porous cavity considering various shapes of nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 106-114.   | 2.5 | 208       |

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|----|--|-----|-----------|
| 19 | Ferrofluid flow and heat transfer in a semi annulus enclosure in the presence of magnetic source considering thermal radiation. Journal of the Taiwan Institute of Chemical Engineers, 2015, 47, 6-17.   | 2.7 | 207       |
| 20 | Magnetic field influence on CuOâ€“H <sub>2</sub> O nanofluid convective flow in a permeable cavity considering various shapes for nanoparticles. International Journal of Hydrogen Energy, 2017, 42, 19611-19621.                                  | 3.8 | 204       |
| 21 | Fe <sub>3</sub> O <sub>4</sub> â€“H <sub>2</sub> O nanofluid natural convection in presence of thermal radiation. International Journal of Hydrogen Energy, 2017, 42, 5708-5718.   | 3.8 | 196       |
| 22 | Free convection of ferrofluid in a cavity heated from below in the presence of an external magnetic field. Powder Technology, 2014, 256, 490-498.  | 2.1 | 188       |
| 23 | Electrohydrodynamic free convection heat transfer of a nanofluid in a semi-annulus enclosure with a sinusoidal wall. Numerical Heat Transfer; Part A: Applications, 2016, 69, 781-793.   | 1.2 | 182       |
| 24 | The electrical MHD and Hall current impact on micropolar nanofluid flow between rotating parallel plates. Results in Physics, 2018, 9, 1201-1214.  | 2.0 | 181       |
| 25 | Electrohydrodynamic Nanofluid Hydrothermal Treatment in an Enclosure with Sinusoidal Upper Wall. Applied Sciences (Switzerland), 2015, 5, 294-306.   | 1.3 | 154       |
| 26 | CVFEM for magnetic nanofluid convective heat transfer in a porous curved enclosure. European Physical Journal Plus, 2016, 131, 1.  | 1.2 | 154       |
| 27 | Impact of Lorentz forces on Fe <sub>3</sub> O <sub>4</sub> -water ferrofluid entropy and exergy treatment within a permeable semi annulus. Journal of Cleaner Production, 2019, 221, 885-898.  | 4.6 | 153       |
| 28 | Radiative MHD Casson Nanofluid Flow with Activation energy and chemical reaction over past nonlinearly stretching surface through Entropy generation. Scientific Reports, 2020, 10, 4402.  | 1.6 | 143       |
| 29 | Radiative Heat and Mass Transfer Analysis of Micropolar Nanofluid Flow of Casson Fluid Between Two Rotating Parallel Plates With Effects of Hall Current. Journal of Heat Transfer, 2019, 141, .   | 1.2 | 142       |
| 30 | Numerical investigation for rotating flow of MHD hybrid nanofluid with thermal radiation over a stretching sheet. Scientific Reports, 2020, 10, 18533.   | 1.6 | 135       |
| 31 | EFFECTS OF MAGNETOHYDRODYNAMICS ON PERISTALTIC FLOW OF JEFFREY FLUID IN A RECTANGULAR DUCT THROUGH A POROUS MEDIUM. Journal of Porous Media, 2014, 17, 143-157.  | 1.0 | 122       |
| 32 | Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .   | 0.6 | 120       |
| 33 | A stochastic numerical analysis based on hybrid NAR-RBFs networks nonlinear SITR model for novel COVID-19 dynamics. Computer Methods and Programs in Biomedicine, 2021, 202, 105973.   | 2.6 | 113       |
| 34 | Entropy generation on magneto-convective flow of copperâ€“water nanofluid in a cavity with chamfers. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2203-2214.  | 2.0 | 111       |
| 35 | Uniform magnetic force impact on water based nanofluid thermal behavior in a porous enclosure with ellipse shaped obstacle. Scientific Reports, 2019, 9, 1196.   | 1.6 | 102       |
| 36 | Numerical analysis of 3-D MHD hybrid nanofluid over a rotational disk in presence of thermal radiation with Joule heating and viscous dissipation effects using Lobatto IIIA technique. AEJ - Alexandria Engineering Journal, 2021, 60, 3605-3619. | 3.4 | 94        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Design of Neural Network With Levenberg-Marquardt and Bayesian Regularization Backpropagation for Solving Pantograph Delay Differential Equations. IEEE Access, 2020, 8, 137918-137933.   | 2.6 | 80        |
| 38 | Nonlinear thermal radiation and cubic autocatalysis chemical reaction effects on the flow of stretched nanofluid under rotational oscillations. Journal of Colloid and Interface Science, 2017, 505, 253-265.                         | 5.0 | 78        |
| 39 | Simulation of bioconvection in the suspension of second grade nanofluid containing nanoparticles and gyrotactic microorganisms. AIP Advances, 2018, 8, .  | 0.6 | 77        |
| 40 | Impact of thermal radiation on electrical MHD rotating flow of Carbon nanotubes over a stretching sheet. AIP Advances, 2019, 9, .   | 0.6 | 77        |
| 41 | Three dimensional third grade nanofluid flow in a rotating system between parallel plates with Brownian motion and thermophoresis effects. Results in Physics, 2018, 10, 36-45.   | 2.0 | 76        |
| 42 | Magnetic Dipole Impact on the Hybrid Nanofluid Flow over an Extending Surface. Scientific Reports, 2020, 10, 8474.  | 1.6 | 76        |
| 43 | Three-dimensional rotating flow of MHD single wall carbon nanotubes over a stretching sheet in presence of thermal radiation. Applied Nanoscience (Switzerland), 2018, 8, 1361-1378.  | 1.6 | 73        |
| 44 | Radiative MHD thin film flow of Williamson fluid over an unsteady permeable stretching sheet. Heliyon, 2018, 4, e00825.   | 1.4 | 73        |
| 45 | Unsteady nanofluid flow and heat transfer in presence of magnetic field considering thermal radiation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 895-902.                                    | 0.8 | 71        |
| 46 | Entropy Analysis on Electro-Kinetically Modulated Peristaltic Propulsion of Magnetized Nanofluid Flow through a Microchannel. Entropy, 2017, 19, 481.   | 1.1 | 70        |
| 47 | Slip flow of Eyring-Powell nanoliquid film containing graphene nanoparticles. AIP Advances, 2018, 8, .  | 0.6 | 70        |
| 48 | The Rotating Flow of Magneto Hydrodynamic Carbon Nanotubes over a Stretching Sheet with the Impact of Non-Linear Thermal Radiation and Heat Generation/Absorption. Applied Sciences (Switzerland), 2018, 8, 482.                      | 1.3 | 68        |
| 49 | Micropolar gold blood nanofluid flow and radiative heat transfer between permeable channels. Computer Methods and Programs in Biomedicine, 2020, 186, 105197.   | 2.6 | 68        |
| 50 | Entropy generation in MHD Casson fluid flow with variable heat conductance and thermal conductivity over non-linear bi-directional stretching surface. Scientific Reports, 2020, 10, 12530.   | 1.6 | 68        |
| 51 | Entropy generation and thermal analysis for rotary motion of hydromagnetic Casson nanofluid past a rotating cylinder with Joule heating effect. International Communications in Heat and Mass Transfer, 2020, 119, 104979.            | 2.9 | 68        |
| 52 | Brownian Motion and Thermophoresis Effects on MHD Mixed Convective Thin Film Second-Grade Nanofluid Flow with Hall Effect and Heat Transfer Past a Stretching Sheet. Journal of Nanofluids, 2017, 6, 812-829.                         | 1.4 | 68        |
| 53 | The Combined Magneto Hydrodynamic and Electric Field Effect on an Unsteady Maxwell Nanofluid Flow over a Stretching Surface under the Influence of Variable Heat and Thermal Radiation. Applied Sciences (Switzerland), 2018, 8, 160. | 1.3 | 66        |
| 54 | Entropy Generation in MHD Radiative Flow of CNTs Casson Nanofluid in Rotating Channels with Heat Source/Sink. Mathematical Problems in Engineering, 2019, 2019, 1-14.   | 0.6 | 64        |

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|----|--|-----|-----------|
| 55 | Darcy Forchheimer nanofluid thin film flow of SWCNTs and heat transfer analysis over an unsteady stretching sheet. <i>AIP Advances</i> , 2019, 9, .  | 0.6 | 63        |
| 56 | Entropy generation in electrical magnetohydrodynamic flow of Al <sub>2</sub> O <sub>3</sub> -Cu/H <sub>2</sub> O hybrid nanofluid with non-uniform heat flux. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2135-2148. | 2.0 | 63        |
| 57 | Darcy-Forchheimer flow of radiative carbon nanotubes with microstructure and inertial characteristics in the rotating frame. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 823-832.   | 2.8 | 62        |
| 58 | Radiative mixed convection flow of maxwell nanofluid over a stretching cylinder with joule heating and heat source/sink effects. <i>Scientific Reports</i> , 2020, 10, 17823.  | 1.6 | 62        |
| 59 | Magnetic nanofluid natural convection in the presence of thermal radiation considering variable viscosity. <i>European Physical Journal Plus</i> , 2017, 132, 1.   | 1.2 | 60        |
| 60 | Nanofluids Thin Film Flow of Reiner-Philippoff Fluid over an Unstable Stretching Surface with Brownian Motion and Thermophoresis Effects. <i>Coatings</i> , 2019, 9, 21.   | 1.2 | 60        |
| 61 | MHD Thin Film Flow and Thermal Analysis of Blood with CNTs Nanofluid. <i>Coatings</i> , 2019, 9, 175.  | 1.2 | 60        |
| 62 | Cattaneo-Christov model for electrical magnetite micropolar Casson ferrofluid over a stretching/shrinking sheet using effective thermal conductivity model. <i>Case Studies in Thermal Engineering</i> , 2019, 13, 100352.               | 2.8 | 60        |
| 63 | MHD Effects on Ciliary-Induced Peristaltic Flow Coatings with Rheological Hybrid Nanofluid. <i>Coatings</i> , 2020, 10, 186.   | 1.2 | 60        |
| 64 | Impact of Nonlinear Thermal Radiation on MHD Nanofluid Thin Film Flow over a Horizontally Rotating Disk. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1533.  | 1.3 | 59        |
| 65 | Influence of Cattaneo-Christov model on Darcy-Forchheimer flow of Micropolar Ferrofluid over a stretching/shrinking sheet. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104385.                            | 2.9 | 58        |
| 66 | Entropy generation optimization in MHD pseudoplastic fluid comprising motile microorganisms with stratification effect. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 485-496.   | 3.4 | 58        |
| 67 | Analysis of hybrid nanofluid behavior within a porous cavity including Lorentz forces and radiation impacts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1129-1137.  | 2.0 | 57        |
| 68 | Exploration of temperature dependent thermophysical characteristics of yield exhibiting non-Newtonian fluid flow under gyrotactic microorganisms. <i>AIP Advances</i> , 2019, 9, .   | 0.6 | 56        |
| 69 | Influence of Inclined Magnetic Field on Carreau Nanoliquid Thin Film Flow and Heat Transfer with Graphene Nanoparticles. <i>Energies</i> , 2019, 12, 1459.   | 1.6 | 55        |
| 70 | On the convective heat and zero nanoparticle mass flux conditions in the flow of 3D MHD Couple Stress nanofluid over an exponentially stretched surface. <i>Scientific Reports</i> , 2019, 9, 562.                                       | 1.6 | 55        |
| 71 | Implementation of the One-Step One-Hybrid Block Method on the Nonlinear Equation of a Circular Sector Oscillator. <i>Computational Mathematics and Modeling</i> , 2020, 31, 116-132.   | 0.2 | 55        |
| 72 | Entropy Generation on Nanofluid Thin Film Flow of Eyring-Powell Fluid with Thermal Radiation and MHD Effect on an Unsteady Porous Stretching Sheet. <i>Entropy</i> , 2018, 20, 412.  | 1.1 | 54        |

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|----|--|-----|-----------|
| 73 | Influences of electrical MHD and Hall current on squeezing nanofluid flow inside rotating porous plates with viscous and joule dissipation effects. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1215-1227. | 2.0 | 54        |
| 74 | Onset of gyrotactic microorganisms in MHD Micropolar nanofluid flow with partial slip and double stratification. <i>Journal of King Saud University - Science</i> , 2020, 32, 2741-2751.                                       | 1.6 | 54        |
| 75 | Influences of Hall current and radiation on MHD micropolar non-Newtonian hybrid nanofluid flow between two surfaces. <i>AIP Advances</i> , 2020, 10, .   | 0.6 | 54        |
| 76 | Unsteady hybrid-nanofluid flow comprising ferrousoxide and CNTs through porous horizontal channel with dilating/squeezing walls. <i>Scientific Reports</i> , 2021, 11, 12637.  | 1.6 | 54        |
| 77 | Bi-parametric distance and similarity measures of picture fuzzy sets and their applications in medical diagnosis. <i>Egyptian Informatics Journal</i> , 2021, 22, 201-212.   | 4.4 | 53        |
| 78 | Entropy Generation in MHD Mixed Convection Non-Newtonian Second-Grade Nanoliquid Thin Film Flow through a Porous Medium with Chemical Reaction and Stratification. <i>Entropy</i> , 2019, 21, 139.                             | 1.1 | 53        |
| 79 | Darcy-Forchheimer flow of MHD nanofluid thin film flow with Joule dissipation and Navier's partial slip. <i>Journal of Physics Communications</i> , 2018, 2, 115014.   | 0.5 | 52        |
| 80 | Impact of Nonlinear Thermal Radiation and the Viscous Dissipation Effect on the Unsteady Three-Dimensional Rotating Flow of Single-Wall Carbon Nanotubes with Aqueous Suspensions. <i>Symmetry</i> , 2019, 11, 207.            | 1.1 | 52        |
| 81 | Chemically reactive MHD micropolar nanofluid flow with velocity slips and variable heat source/sink. <i>Scientific Reports</i> , 2020, 10, 20926.  | 1.6 | 51        |
| 82 | Three-Dimensional Nanofluid Flow with Heat and Mass Transfer Analysis over a Linear Stretching Surface with Convective Boundary Conditions. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2244.                             | 1.3 | 49        |
| 83 | Distance and Similarity Measures for Spherical Fuzzy Sets and Their Applications in Selecting Mega Projects. <i>Mathematics</i> , 2020, 8, 519.  | 1.1 | 49        |
| 84 | Nonlinear fractional mathematical model of tuberculosis (TB) disease with incomplete treatment under Atangana-Baleanu derivative. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2845-2856.                           | 3.4 | 48        |
| 85 | Entropy Generation in MHD Eyring's Powell Fluid Flow over an Unsteady Oscillatory Porous Stretching Surface under the Impact of Thermal Radiation and Heat Source/Sink. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2588. | 1.3 | 47        |
| 86 | Unsteady squeezing flow of magnetohydrodynamic carbon nanotube nanofluid in rotating channels with entropy generation and viscous dissipation. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401882310.          | 0.8 | 47        |
| 87 | Hall Effect on Couple Stress 3D Nanofluid Flow Over an Exponentially Stretched Surface With Cattaneo Christov Heat Flux Model. <i>IEEE Access</i> , 2019, 7, 64844-64855.  | 2.6 | 46        |
| 88 | Hall current and thermophoresis effects on magnetohydrodynamic mixed convective heat and mass transfer thin film flow. <i>Journal of Physics Communications</i> , 2019, 3, 035009.   | 0.5 | 46        |
| 89 | Darcy-Forchheimer MHD Hybrid Nanofluid Flow and Heat Transfer Analysis over a Porous Stretching Cylinder. <i>Coatings</i> , 2020, 10, 391.   | 1.2 | 46        |
| 90 | A convective flow of Williamson nanofluid through cone and wedge with non-isothermal and non-isosolutal conditions: A revised Buongiorno model. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100869.                 | 2.8 | 46        |

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|-----|--|-----|-----------|
| 91  | Joule heating in magnetohydrodynamic micropolar boundary layer flow past a stretching sheet with chemical reaction and microstructural slip. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100870.                    | 2.8 | 46        |
| 92  | Study of two-dimensional boundary layer thin film fluid flow with variable thermo-physical properties in three dimensions space. <i>AIP Advances</i> , 2018, 8, 105318.  | 0.6 | 45        |
| 93  | Non Pharmaceutical Interventions for Optimal Control of COVID-19. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105642.   | 2.6 | 45        |
| 94  | Fractional order mathematical modeling of typhoid fever disease. <i>Results in Physics</i> , 2022, 32, 105044.   | 2.0 | 45        |
| 95  | Three-Dimensional Casson Nanofluid Thin Film Flow over an Inclined Rotating Disk with the Impact of Heat Generation/Consumption and Thermal Radiation. <i>Coatings</i> , 2019, 9, 248.   | 1.2 | 44        |
| 96  | Lorentz force impact on hybrid nanofluid within a porous tank including entropy generation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104635.   | 2.9 | 44        |
| 97  | Entropy optimization in Darcy–Forchheimer MHD flow of water based copper and silver nanofluids with Joule heating and viscous dissipation effects. <i>AIP Advances</i> , 2020, 10, .   | 0.6 | 40        |
| 98  | Investigation of entropy generation in stratified MHD Carreau nanofluid with gyrotactic microorganisms under Von Neumann similarity transformations. <i>European Physical Journal Plus</i> , 2020, 135, 1.                     | 1.2 | 40        |
| 99  | Darcy–Forchheimer flow of MHD CNTs nanofluid radiative thermal behaviour and convective non uniform heat source/sink in the rotating frame with microstructure and inertial characteristics. <i>AIP Advances</i> , 2018, 8, .  | 0.6 | 39        |
| 100 | Optimization of entropy generation in flow of micropolar mixed convective magnetite (Fe <sub>3</sub> O <sub>4</sub> ) ferroparticle over a vertical plate. <i>AEJ - Alexandria Engineering Journal</i> , 2019, 58, 1461-1470.  | 3.4 | 39        |
| 101 | Brownian Motion and Thermophoresis Effects on MHD Three Dimensional Nanofluid Flow with Slip Conditions and Joule Dissipation Due to Porous Rotating Disk. <i>Molecules</i> , 2020, 25, 729.                                   | 1.7 | 39        |
| 102 | The Intestinal Microbiota: Impacts of Antibiotics Therapy, Colonization Resistance, and Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6597.   | 1.8 | 37        |
| 103 | Natural convection flow of a non-Newtonian nanofluid between two vertical flat plates. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2011, 225, 115-122. | 0.1 | 36        |
| 104 | Darcy–Forchheimer flow of micropolar nanofluid between two plates in the rotating frame with non-uniform heat generation/absorption. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401880885.                    | 0.8 | 35        |
| 105 | Application of Electric Field for Augmentation of Ferrofluid Heat Transfer in an Enclosure Including Double Moving Walls. <i>IEEE Access</i> , 2019, 7, 21048-21056.   | 2.6 | 35        |
| 106 | Modeling and Control of Multiphase Interleaved Fuel-Cell Boost Converter Based on Hamiltonian Control Theory for Transportation Applications. <i>IEEE Transactions on Transportation Electrification</i> , 2020, 6, 519-529.   | 5.3 | 34        |
| 107 | Fractional Dynamics of HIV with Source Term for the Supply of New CD4+ T-Cells Depending on the Viral Load via Caputo–Fabrizio Derivative. <i>Molecules</i> , 2021, 26, 1806.  | 1.7 | 34        |
| 108 | Three-dimensional magnetohydrodynamic (MHD) flow of Maxwell nanofluid containing gyrotactic micro-organisms with heat source/sink. <i>AIP Advances</i> , 2018, 8, .  | 0.6 | 33        |

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|-----|--|-----|-----------|
| 109 | Entropy Generation of Carbon Nanotubes Flow in a Rotating Channel with Hall and Ion-Slip Effect Using Effective Thermal Conductivity Model. <i>Entropy</i> , 2019, 21, 52.   | 1.1 | 33        |
| 110 | Microstructure and Inertial Characteristics of MHD Suspended SWCNTs and MWCNTs Based Maxwell Nanofluid Flow with Bio-Convection and Entropy Generation Past a Permeable Vertical Cone. <i>Coatings</i> , 2020, 10, 998.                              | 1.2 | 33        |
| 111 | Soft computing paradigm for Ferrofluid by exponentially stretched surface in the presence of magnetic dipole and heat transfer. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1607-1623.   | 3.4 | 33        |
| 112 | Effective Prandtl Number Model Influences on the $\gamma_{H_2O}$ and $\gamma_{Al_2O_3}$ $\gamma_{C_2H_6O_2}$ Nanofluids Spray Along a Stretching Cylinder. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 1601-1616.                 | 1.7 | 32        |
| 113 | Entropy Generation in MHD Second-Grade Nanofluid Thin Film Flow Containing CNTs with Cattaneo-Christov Heat Flux Model Past an Unsteady Stretching Sheet. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2720.                                    | 1.3 | 32        |
| 114 | On nonlinear classical and fractional order dynamical system addressing COVID-19. <i>Results in Physics</i> , 2021, 24, 104069.  | 2.0 | 32        |
| 115 | Application of Differential Transformation Method for Nanofluid Flow in a Semi-Permeable Channel Considering Magnetic Field Effect. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2015, 16, 246-255. | 1.4 | 31        |
| 116 | Entropy Generation and Heat Transfer Analysis in MHD Unsteady Rotating Flow for Aqueous Suspensions of Carbon Nanotubes with Nonlinear Thermal Radiation and Viscous Dissipation Effect. <i>Entropy</i> , 2019, 21, 492.                             | 1.1 | 31        |
| 117 | Influence of Cattaneo-Christov Heat Flux on MHD Jeffrey, Maxwell, and Oldroyd-B Nanofluids with Homogeneous-Heterogeneous Reaction. <i>Symmetry</i> , 2019, 11, 439.   | 1.1 | 31        |
| 118 | Cattaneo-Christov Heat Flux Model for Three-Dimensional Rotating Flow of SWCNT and MWCNT Nanofluid with Darcy-Forchheimer Porous Medium Induced by a Linearly Stretchable Surface. <i>Symmetry</i> , 2019, 11, 331.                                  | 1.1 | 31        |
| 119 | Impact of magnetic field on boundary-layer flow of Sisko liquid comprising nanomaterials migration through radially shrinking/stretching surface with zero mass flux. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3699-3709.      | 2.6 | 31        |
| 120 | Mathematical modeling and study of MHD flow of Williamson nanofluid over a nonlinear stretching plate with activation energy. <i>Heat Transfer</i> , 2021, 50, 2558-2570.  | 1.7 | 31        |
| 121 | Analysis of boundary layer MHD Darcy-Forchheimer radiative nanofluid flow with sores and dufour effects by means of marangoni convection. <i>Case Studies in Thermal Engineering</i> , 2021, 23, 100792.   | 2.8 | 31        |
| 122 | Darcy-Forchheimer MHD Couple Stress 3D Nanofluid over an Exponentially Stretching Sheet through Cattaneo-Christov Convective Heat Flux with Zero Nanoparticles Mass Flux Conditions. <i>Entropy</i> , 2019, 21, 867.                                 | 1.1 | 30        |
| 123 | Unsteady MHD carbon nanotubes suspended nanofluid flow with thermal stratification and nonlinear thermal radiation. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1557-1566.   | 3.4 | 30        |
| 124 | Design of Backpropagated Intelligent Networks for Nonlinear Second-Order Lane-Emden Pantograph Delay Differential Systems. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 1197-1210.   | 1.7 | 30        |
| 125 | The influence of a magnetic field on the heat transfer of a magnetic nanofluid in a sinusoidal channel. <i>European Physical Journal Plus</i> , 2016, 131, 1.  | 1.2 | 29        |
| 126 | Bidirectional flow of MHD nanofluid with Hall current and Cattaneo-Christov heat flux toward the stretching surface. <i>PLoS ONE</i> , 2022, 17, e0264208.   | 1.1 | 29        |



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|-----|---|-----|-----------|
| 127 | Hall effect on Titania nanofluids thin film flow and radiative thermal behavior with different base fluids on an inclined rotating surface. AIP Advances, 2019, 9, .  | 0.6 | 28        |
| 128 | Entropy generation on MHD peristaltic flow of Cu-water nanofluid with slip conditions. Heat Transfer - Asian Research, 2019, 48, 4301-4319.   | 2.8 | 28        |
| 129 | Viscoelastic MHD Nanofluid Thin Film Flow over an Unsteady Vertical Stretching Sheet with Entropy Generation. Processes, 2019, 7, 262.  | 1.3 | 28        |
| 130 | CFD Simulation of Water-Based Hybrid Nanofluid Inside a Porous Enclosure Employing Lorentz Forces. IEEE Access, 2019, 7, 177177-177186.   | 2.6 | 28        |
| 131 | Numerical modeling on hybrid nanofluid (Fe <sub>3</sub> O <sub>4</sub> +MWCNT/H <sub>2</sub> O) migration considering MHD effect over a porous cylinder. PLoS ONE, 2021, 16, e0251744.  | 1.1 | 28        |
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