# Hassan Waqas

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 137 papers | 4,118 citations | 126907 33 h-index | 182427 51 g-index |
| 139 all docs | 139 docs citations | 139 times ranked | 1087 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analysis on the bioconvection flow of modified second-grade nanofluid containing gyrotactic microorganisms and nanoparticles. Journal of Molecular Liquids, 2019, 291, 111231. | 4.9 | 154 |
| 2 | Novel Physical Insights into the Thermodynamic Irreversibilities Within Dissipative EMHD Fluid Flows Past over a Moving Horizontal Riga Plate in the Coexistence of Wall Suction and Joule Heating Effects: A Comprehensive Numerical Investigation. Arabian Journal for Science and Engineering, 2020, 45, 9423-9438. | 3.0 | 144 |
| 3 | Significance of nonlinear thermal radiation in 3D Eyringâ€“Powell nanofluid flow with Arrhenius activation energy. Journal of Thermal Analysis and Calorimetry, 2021, 143, 929-944. | 3.6 | 142 |
| 4 | Bioconvection flow of magnetized Carreau nanofluid under the influence of slip over a wedge with motile microorganisms. Journal of Thermal Analysis and Calorimetry, 2021, 143, 945-957. | 3.6 | 130 |
| 5 | Thermally developed Falknerâ€“Skan bioconvection flow of a magnetized nanofluid in the presence of a motile gyrotactic microorganism: Buongiornoâ€™s nanofluid model. Physica Scripta, 2019, 94, 115304. | 2.5 | 120 |
| 6 | Thermally radioactive bioconvection flow of Carreau nanofluid with modified Cattaneo-Christov expressions and exponential space-based heat source. AEJ - Alexandria Engineering Journal, 2021, 60, 3073-3086. | 6.4 | 113 |
| 7 | Impact of MHD radiative flow of hybrid nanofluid over a rotating disk. Case Studies in Thermal Engineering, 2021, 26, 101015. | 5.7 | 103 |
| 8 | Bioconvection in the Rheology of Magnetized Couple Stress Nanofluid Featuring Activation Energy and Wuâ€™s Slip. Journal of Non-Equilibrium Thermodynamics, 2020, 45, 81-95. | 4.2 | 99 |
| 9 | A Numerical Exploration of Modified Second-Grade Nanofluid with Motile Microorganisms, Thermal Radiation, and Wuâ€™s Slip. Symmetry, 2020, 12, 393. | 2.2 | 97 |
| 10 | Bioconvection analysis for Sutterby nanofluid over an axially stretched cylinder with melting heat transfer and variable thermal features: A Marangoni and solutal model. AEJ - Alexandria Engineering Journal, 2021, 60, 4663-4675. | 6.4 | 91 |
| 11 | Significance of bioconvection in chemical reactive flow of magnetized Carreauâ€“Yasuda nanofluid with thermal radiation and second-order slip. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1293-1306. | 3.6 | 76 |
| 12 | Interaction of Wuâ€™s Slip Features in Bioconvection of Eyring Powell Nanoparticles with Activation Energy. Processes, 2019, 7, 859. | 2.8 | 75 |
| 13 | Applications of modified Darcy law and nonlinear thermal radiation in bioconvection flow of micropolar nanofluid over an off centered rotating disk. AEJ - Alexandria Engineering Journal, 2021, 60, 4607-4618. | 6.4 | 73 |
| 14 | Numerical performance of thermal conductivity in Bioconvection flow of cross nanofluid containing swimming microorganisms over a cylinder with melting phenomenon. Case Studies in Thermal Engineering, 2021, 26, 101181. | 5.7 | 72 |
| 15 | Activation Energy and Second Order Slip in Bioconvection of Oldroyd-B Nanofluid over a Stretching Cylinder: A Proposed Mathematical Model. Processes, 2019, 7, 914. | 2.8 | 67 |
| 16 | Theoretical analysis of tangent hyperbolic nanoparticles with combined electrical MHD, activation energy and Wuâ€™s slip features: a mathematical model. Physica Scripta, 2019, 94, 125211. | 2.5 | 61 |
| 17 | A mathematical model for bioconvection flow of Williamson nanofluid over a stretching cylinder featuring variable thermal conductivity, activation energy and second-order slip. Journal of Thermal Analysis and Calorimetry, 2021, 144, 205-217. | 3.6 | 57 |
| 18 | Numerical investigation on bioconvection flow of Oldroyd-B nanofluid with nonlinear thermal radiation and motile microorganisms over rotating disk. Journal of Thermal Analysis and Calorimetry, 2021, 145, 523-539. | 3.6 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Flash Flood Susceptibility Assessment and Zonation Using an Integrating Analytic Hierarchy Process and Frequency Ratio Model for the Chitral District, Khyber Pakhtunkhwa, Pakistan. Water (Switzerland), 2021, 13, 1650. | 2.7 | 55 |
| 20 | Slip flow of micropolar nanofluid over a porous rotating disk with motile microorganisms, nonlinear thermal radiation and activation energy. International Communications in Heat and Mass Transfer, 2021, 122, 105161. | 5.6 | 53 |
| 21 | Double stratified analysis for bioconvection radiative flow of Sisko nanofluid with generalized heat/mass fluxes. Physica Scripta, 2021, 96, 055004. | 2.5 | 51 |
| 22 | Novel Numerical Computations on Flow of Nanoparticles in Porous Rotating Disk with Multiple Slip Effects and Microorganisms. Journal of Nanofluids, 2019, 8, 1423-1432. | 2.7 | 50 |
| 23 | Unsteady transient slip flow of Williamson nanofluid containing gyrotactic microorganism and activation energy. AEJ - Alexandria Engineering Journal, 2020, 59, 4315-4328. | 6.4 | 49 |
| 24 | Radiative flow of Maxwell nanofluid containing gyrotactic microorganism and energy activation with convective Nield conditions. Heat Transfer - Asian Research, 2019, 48, 1663-1687. | 2.8 | 47 |
| 25 | On doubly stratified bioconvective transport of Jeffrey nanofluid with gyrotactic motile microorganisms. AEJ - Alexandria Engineering Journal, 2022, 61, 1571-1583. | 6.4 | 47 |
| 26 | Slip flow of Maxwell viscoelasticity-based micropolar nanoparticles with porous medium: a numerical study. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1255-1268. | 3.6 | 46 |
| 27 | Numerical analysis of dual variable of conductivity in bioconvection flow of Carreauâ€“Yasuda nanofluid containing gyrotactic motile microorganisms over a porous medium. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2033-2044. | 3.6 | 46 |
| 28 | Falkner-Skan time-dependent bioconvrction flow of cross nanofluid with nonlinear thermal radiation, activation energy and melting process. International Communications in Heat and Mass Transfer, 2021, 120, 105028. | 5.6 | 45 |
| 29 | Significance of Bioconvective and Thermally Dissipation Flow of Viscoelastic Nanoparticles with Activation Energy Features: Novel Biofuels Significance. Symmetry, 2020, 12, 214. | 2.2 | 44 |
| 30 | Effects of nonlinear thermal radiation and activation energy on modified second-grade nanofluid with Cattaneoâ€“Christov expressions. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1175-1186. | 3.6 | 44 |
| 31 | Forest fire monitoring using spatial-statistical and Geo-spatial analysis of factors determining forest fire in Margalla Hills, Islamabad, Pakistan. Geomatics, Natural Hazards and Risk, 2021, 12, 1212-1233. | 4.3 | 44 |
| 32 | Numerical simulation for bioconvection effects on MHD flow of Oldroyd-B nanofluids in a rotating frame stretching horizontally. Mathematics and Computers in Simulation, 2020, 178, 166-182. | 4.4 | 42 |
| 33 | Thermal effect on bioconvection flow of Sutterby nanofluid between two rotating disks with motile microorganisms. Case Studies in Thermal Engineering, 2021, 26, 101136. | 5.7 | 41 |
| 34 | Influence of bioconvection on Maxwell nanofluid flow with the swimming of motile microorganisms over a vertical rotating cylinder. Chinese Journal of Physics, 2020, 68, 558-577. | 3.9 | 40 |
| 35 | Utilization of Second Order Slip, Activation Energy and Viscous Dissipation Consequences in Thermally Developed Flow of Third Grade Nanofluid with Gyrotactic Microorganisms. Symmetry, 2020, 12, 309. | 2.2 | 40 |
| 36 | Bioconvection transport of Carreau nanofluid with magnetic dipole and nonlinear thermal radiation. Case Studies in Thermal Engineering, 2021, 26, 101129. | 5.7 | 40 |

| # | Article | IF | Citations |
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| 37 | Simultaneous effects of bioconvection and velocity slip in three-dimensional flow of Eyring-Powell nanofluid with Arrhenius activation energy and binary chemical reaction. International Communications in Heat and Mass Transfer, 2020, 117, 104738. | 5.6 | 39 |
| 38 | Significance of magnetic field and activation energy on the features of stratified mixed radiative-convective couple-stress nanofluid flows with motile microorganisms. AEJ - Alexandria Engineering Journal, 2022, 61, 1425-1436. | 6.4 | 39 |
| 39 | EMHD flow of non-Newtonian nanofluids over thin needle with Robinsonâ€™s condition and Arrhenius pre-exponential factor law. Physica Scripta, 2020, 95, 115219. | 2.5 | 39 |
| 40 | On bio-convection thermal radiation in Darcy â€“ Forchheimer flow of nanofluid with gyrotactic motile microorganism under Wuâ€™s slip over stretching cylinder/plate. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 1520-1546. | 2.8 | 38 |
| 41 | Numerical study for bio-convection flow of tangent hyperbolic nanofluid over a Riga plate with activation energy. AEJ - Alexandria Engineering Journal, 2022, 61, 1803-1814. | 6.4 | 38 |
| 42 | Cattaneo-Christov heat flux and entropy generation on hybrid nanofluid flow in a nozzle of rocket engine with melting heat transfer. Case Studies in Thermal Engineering, 2021, 28, 101504. | 5.7 | 36 |
| 43 | Assessment of bioconvection in magnetized Sutterby nanofluid configured by a rotating disk: A numerical approach. Modern Physics Letters B, 2021, 35, 2150202. | 1.9 | 35 |
| 44 | Brownian motion and thermophoresis effects on bioconvection of rotating Maxwell nanofluid over a Riga plate with Arrhenius activation energy and Cattaneo-Christov heat flux theory. Thermal Science and Engineering Progress, 2021, 23, 100863. | 2.7 | 35 |
| 45 | Numerical simulation for melting heat transport in nanofluids due to quadratic stretching plate with nonlinear thermal radiation. Case Studies in Thermal Engineering, 2021, 27, 101300. | 5.7 | 35 |
| 46 | Simultaneous features of Wu's slip, nonlinear thermal radiation and activation energy in unsteady bio-convective flow of Maxwell nanofluid configured by a stretching cylinder. Chinese Journal of Physics, 2021, 73, 462-478. | 3.9 | 33 |
| 47 | Applications of activation energy along with thermal and exponential space-based heat source in bioconvection assessment of magnetized third grade nanofluid over stretched cylinder/sheet. Case Studies in Thermal Engineering, 2021, 26, 101043. | 5.7 | 32 |
| 48 | Activation energy and bioconvection aspects in generalized second-grade nanofluid over a Riga plate: a theoretical model. Applied Nanoscience (Switzerland), 2020, 10, 4445-4458. | 3.1 | 31 |
| 49 | Numerical computation for entropy generation in Darcy-Forchheimer transport of hybrid nanofluids with Cattaneo-Christov double-diffusion. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 1861-1882. | 2.8 | 30 |
| 50 | On the magnetized 3D flow of hybrid nanofluids utilizing nonlinear radiative heat transfer. Physica Scripta, 2021, 96, 095202. | 2.5 | 28 |
| 51 | Importance of shape factor in Sisko nanofluid flow considering gold nanoparticles. AEJ - Alexandria Engineering Journal, 2022, 61, 3665-3672. | 6.4 | 28 |
| 52 | Thermal transport in magnetized flow of hybrid nanofluids over a vertical stretching cylinder. Case Studies in Thermal Engineering, 2021, 27, 101219. | 5.7 | 28 |
| 53 | Numerical simulation of squeezing flow Jeffrey nanofluid confined by two parallel disks with the help of chemical reaction: effects of activation energy and microorganisms. International Journal of Chemical Reactor Engineering, 2021, 19, 717-725. | 1.1 | 27 |
| 54 | Significance of the nonlinear radiative flow of micropolar nanoparticles over porous surface with a gyrotactic microorganism, activation energy, and Nield's condition. Heat Transfer - Asian Research, 2019, 48, 3230-3256. | 2.8 | 25 |

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| 55 | Cattaneo-Christov double diffusions theories with bio-convection in nanofluid flow to enhance the efficiency of nanoparticles diffusion. Case Studies in Thermal Engineering, 2021, 26, 101017. | 5.7 | 25 |
| 56 | On melting heat transport and nanofluid in a nozzle of liquid rocket engine with entropy generation. Journal of Materials Research and Technology, 2021, 14, 3059-3069. | 5.8 | 25 |
| 57 | Magneto-Burgers Nanofluid Stratified Flow with Swimming Motile Microorganisms and Dual Variables Conductivity Configured by a Stretching Cylinder/Plate. Mathematical Problems in Engineering, 2021, 2021, 1-16. | 1.1 | 25 |
| 58 | Flow and heat transfer of nanofluid over a permeable cylinder with nonlinear thermal radiation. Journal of Materials Research and Technology, 2021, 14, 2579-2585. | 5.8 | 24 |
| 59 | Numerical computation of melting heat transfer in nonlinear radiative flow of hybrid nanofluids due to permeable stretching curved surface. Case Studies in Thermal Engineering, 2021, 27, 101348. | 5.7 | 23 |
| 60 | Computational Analysis of Nanoparticle Shapes on Hybrid Nanofluid Flow Due to Flat Horizontal Plate via Solar Collector. Nanomaterials, 2022, 12, 663. | 4.1 | 23 |
| 61 | Marangoniâ€bioconvectional flow of Reinerâ€“Philippoff nanofluid with melting phenomenon and nonuniform heat source/sink in the presence of a swimming microorganisms. Mathematical Methods | 2.3 | 22 |
| 62 | Significance of surface catalyzed reactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi mathvariant="bold-italic">Si</mml:mi><mml:msub><mml:mi mathvariant="bold-italic">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mrow><mml:mspace width="0.25em" /><mml:msub><mml:mi mathvariant="bold-italic">H</mml:mi><mml:mn>2</mml:mn></mml:m | 5.7 | 22 |
| 63 | Thermo-bioconvection transport of nanofluid over an inclined stretching cylinder with Cattaneoâ€“Christov double-diffusion. Communications in Theoretical Physics, 2021, 73, 075006. | 2.5 | 21 |
| 64 | Heat transfer improvement in hybrid nanofluid flow over a moving sheet with magnetic dipole. Waves in Random and Complex Media, 0, , 1-15. | 2.7 | 21 |
| 65 | Comparative analysis of hybrid nanofluids with Cattaneo-Christov heat flux model: A thermal case study. Case Studies in Thermal Engineering, 2022, 36, 102212. | 5.7 | 21 |
| 66 | Second-order slip effect on bio-convectional viscoelastic nanofluid flow through a stretching cylinder with swimming microorganisms and melting phenomenon. Scientific Reports, 2021, 11, 11208. | 3.3 | 20 |
| 67 | Computation of nonlinear thermal radiation in magnetized nanofluid flow with entropy generation. Applied Mathematics and Computation, 2022, 423, 126900. | 2.2 | 20 |
| 68 | Bioconvection flow of Casson nanofluid by rotating disk with motile microorganisms. Journal of Materials Research and Technology, 2021, 13, 2392-2407. | 5.8 | 19 |
| 69 | Numerical investigation for 3D bioconvection flow of Carreau nanofluid with heat source/sink and motile microorganisms. AEJ - Alexandria Engineering Journal, 2022, 61, 2366-2375. | 6.4 | 19 |
| 70 | Entropy minimization in mixed convective Falkner-Skan flow of ZnO-SAE50 nanolubricant over stationary/moving Riga plate. Case Studies in Thermal Engineering, 2021, 26, 101176. | 5.7 | 18 |
| 71 | Aspects of thermal diffusivity and melting phenomenon in Carreau nanofluid flow confined by nonlinear stretching cylinder with convective Marangoni boundary constraints. Mathematics and Computers in Simulation, 2022, 195, 138-150. | 4.4 | 18 |
| 72 | Bioconvection aspects in non-Newtonian three-dimensional Carreau nanofluid flow with Cattaneoâ€“Christov model and activation energy. European Physical Journal: Special Topics, 2021, 230, 1317-1330. | 2.6 | 17 |

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|---|---|---|---|
| 73 | Comparative study for magnetized flow of nanofluids between two parallel permeable stretching/shrinking surfaces. Case Studies in Thermal Engineering, 2021, 28, 101353. | 5.7 | 17 |
| 74 | Physical attributes of bio-convection in nanofluid flow through a paraboloid of revolution on horizontal surface with motile microorganisms. International Communications in Heat and Mass Transfer, 2022, 133, 105947. | 5.6 | 17 |
| 75 | Bioconvection mechanism using third-grade nanofluid flow with Cattaneoâ€“Christov heat flux model and Arrhenius kinetics. International Journal of Modern Physics B, 2021, 35, 2150178. | 2.0 | 16 |
| 76 | Melting phenomenon of non-linear radiative generalized second grade nanoliquid. Case Studies in Thermal Engineering, 2021, 26, 101011. | 5.7 | 16 |
| 77 | Numerical simulation for magnetic dipole in bioconvection flow of Jeffrey nanofluid with swimming motile microorganisms. Waves in Random and Complex Media, 0, , 1-18. | 2.7 | 15 |
| 78 | Maxwell time-dependent nanofluid flow over a wedge covered with gyrotactic microorganism: an activation energy process. International Journal of Ambient Energy, 2022, 43, 5560-5570. | 2.5 | 15 |
| 79 | Thermal analysis of magnetized flow of AA7072-AA7075/blood-based hybrid nanofluids in a rotating channel. AEJ - Alexandria Engineering Journal, 2022, 61, 3059-3068. | 6.4 | 15 |
| 80 | Activation Energy and Thermal Radiation Aspects in Bioconvection Flow of Rate-Type Nanoparticles Configured by a Stretching/Shrinking Disk. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, . | 2.3 | 15 |
| 81 | Investigation of 3D flow of magnetized hybrid nanofluid with heat source/sink over a stretching sheet. Scientific Reports, 2022, 12, . | 3.3 | 15 |
| 82 | Thermo-bioconvectional transport of magneto-Casson nanofluid over a wedge containing motile microorganisms and variable thermal conductivity. AEJ - Alexandria Engineering Journal, 2022, 61, 2444-2454. | 6.4 | 14 |
| 83 | Numerical investigation for melting heat transport of nanofluids due to stretching surface with Cattaneo-Christov thermal model. AEJ - Alexandria Engineering Journal, 2022, 61, 6635-6644. | 6.4 | 14 |
| 84 | On unsteady 3D bio-convection flow of viscoelastic nanofluid with radiative heat transfer inside a solar collector plate. Scientific Reports, 2022, 12, 2952. | 3.3 | 14 |
| 85 | Thermal transport analysis of six circular microchannel heat sink using nanofluid. Scientific Reports, 2022, 12, 8035. | 3.3 | 14 |
| 86 | Recent progress in melting heat phenomenon for bioconvection transport of nanofluid through a lubricated surface with swimming microorganisms. Scientific Reports, 2022, 12, 8447. | 3.3 | 14 |
| 87 | Effective Prandtl Aspects on Bio-Convective Thermally Developed Magnetized Tangent Hyperbolic Nanoliquid With Gyrotactic Microorganisms and Second Order Velocity Slip. IEEE Access, 2019, 7, 130008-130023. | 4.2 | 13 |
| 88 | Nonlinear thermally radiative heat transport for brinkman type micropolar nano-material over an inclined surface with motile microorganisms and exponential heat source. International Communications in Heat and Mass Transfer, 2021, 126, 105351. | 5.6 | 13 |
| 89 | Magnetized bioconvection flow of Sutterby fluid characterized by the suspension of nanoparticles across a wedge with activation energy. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000349. | 1.6 | 13 |
| 90 | MHD Forced Convective Flow of Micropolar Fluids Past a Moving Boundary Surface with Prescribed Heat Flux and Radiation. British Journal of Mathematics & Computer Science, 2017, 21, 1-14. | 0.3 | 13 |

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| 91 | Bioconvection in Cross Nano-Materials with Magnetic Dipole Impacted by Activation Energy, Thermal Radiation, and Second Order Slip. Symmetry, 2020, 12, 1019. | 2.2 | 12 |
| 92 | Three-Dimensional Radiative Bioconvective Flow of a Sisko Nanofluid with Motile Microorganisms. Coatings, 2021, 11, 335. | 2.6 | 12 |
| 93 | Joule heating, activation energy and modified diffusion analysis for 3D slip flow of tangent hyperbolic nanofluid with gyrotactic microorganisms. Modern Physics Letters B, 0, , 2150278. | 1.9 | 12 |
| 94 | Chemically reactive transport of magnetized hybrid nanofluids through Darcian porous medium. Case Studies in Thermal Engineering, 2021, 28, 101431. | 5.7 | 12 |
| 95 | Study of homogeneousâ€“heterogeneous reactions in bioconvection stagnation pointslip flow of Walter's-B nanofluid with nonlinear thermal radiation and activation energy. International Communications in Heat and Mass Transfer, 2021, 129, 105729. | 5.6 | 12 |
| 96 | A proposed unsteady bioconvection model for transient thin film flow of rate-type nanoparticles configured by rotating disk. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1639-1654. | 3.6 | 11 |
| 97 | Combined magnetic and porosity effects on flow of time-dependent tangent hyperbolic fluid with nanoparticles and motile gyrotactic microorganism past a wedge with second-order slip. Case Studies in Thermal Engineering, 2021, 26, 100962. | 5.7 | 11 |
| 98 | Thermo-bioconvection in stagnation point flow of third-grade nanofluid towards a stretching cylinder involving motile microorganisms. Physica Scripta, 2021, 96, 035208. | 2.5 | 11 |
| 99 | Numerical simulation for bioconvectional flow of burger nanofluid with effects of activation energy and exponential heat source/sink over an inclined wall under the swimming microorganisms. Scientific Reports, 2021, 11, 14305. | 3.3 | 10 |
| 100 | Numerical treatment with Lobatto-IIIa scheme magneto-thermo-natural convection flow of casson nanofluid (MoS2â^'Cu/SA) configured by a stretching cylinder in porous medium with multiple slips. Case Studies in Thermal Engineering, 2021, 26, 101132. | 5.7 | 10 |
| 101 | Significance of activation energy and Wuâ€™s slip features in Cross nanofluid with motile microorganisms. Communications in Theoretical Physics, 2020, 72, 105001. | 2.5 | 10 |
| 102 | Thermal transport of bio-convection flow of micropolar nanofluid with motile microorganisms and velocity slip effects. Physica Scripta, 2021, 96, 015220. | 2.5 | 10 |
| 103 | Impact of electro-magneto-hydrodynamics in radiative flow of nanofluids between two rotating plates. AEJ - Alexandria Engineering Journal, 2022, 61, 10307-10317. | 6.4 | 10 |
| 104 | Unique morphologies of zinc oxide synthesized by thermal decomposition and coâ€precipitation routes: Ultraviolet absorption and luminescence characteristics. Crystal Research and Technology, 2015, 50, 379-388. | 1.3 | 9 |
| 105 | Numerical simulation for bio-convection flow of magnetized non-Newtonian nanofluid due to stretching cylinder/plate with swimming motile microorganisms. European Physical Journal: Special Topics, 2021, 230, 1239-1256. | 2.6 | 9 |
| 106 | Consequences of Fourierâ€™s and Fickâ€™s laws in bioconvective couple stress nanofluid flow configured by an inclined stretchable cylinder. International Journal of Modern Physics B, 2021, 35, 2150176. | 2.0 | 9 |
| 107 | Heat transfer enhancement in stagnation point flow of ferro-copper oxide/water hybrid nanofluid: A special case study. Case Studies in Thermal Engineering, 2021, 28, 101615. | 5.7 | 9 |
| 108 | Importance of bioconvection in 3D viscoelastic nanofluid flow due to exponentially stretching surface with nonlinear radiative heat transfer and variable thermal conductivity. Journal of Thermal Analysis and Calorimetry, 0, , 1. | 3.6 | 8 |

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| 109 | Bioconvection transport of magnetized Walter's B nanofluid across a cylindrical disk with nonlinear radiative heat transfer. Case Studies in Thermal Engineering, 2021, 26, 101097. | 5.7 | 8 |
| 110 | Thermal transport of hybrid nanofluids with entropy generation: A numerical simulation. International Journal of Modern Physics B, 2021, 35, 2150218. | 2.0 | 8 |
| 111 | Dynamic consequences of nonlinear radiative heat flux and heat generation/absorption effects in cross-diffusion flow of generalized micropolar nanofluid. Case Studies in Thermal Engineering, 2021, 28, 101451. | 5.7 | 8 |
| 112 | Evaluating the Higher-Order Slip Consequence in Bioconvection Nanofluid Flow Configured by a Variable Thick Surface of Disk. Journal of Nanomaterials, 2022, 2022, 1-13. | 2.7 | 8 |
| 113 | Recent progress in melting phenomenon for magnetized hybrid nanofluid flow over a stretching surface with temperature dependent viscosity: a comparative study. Journal of Materials Research and Technology, 2021, 15, 3965-3973. | 5.8 | 7 |
| 114 | Study of radiative Reinerâ€“Philippoff nanofluid model with gyrotactic microorganisms and activation energy: A Cattaneoâ€“Christov Double Diffusion (CCDD) model analysis. Chinese Journal of Physics, 2021, 73, 569-580. | 3.9 | 7 |
| 115 | A thermal model for bio-convection transport of nanofluid due to stretching cylinder with Marangoni boundary conditions. Waves in Random and Complex Media, 0, , 1-17. | 2.7 | 7 |
| 116 | Investigation of thermal stratification and nonlinear thermal radiation in Darcy-Forchheimer transport of hybrid nanofluid by rotating disk with Marangoni convection. International Journal of Ambient Energy, 2022, 43, 6724-6731. | 2.5 | 7 |
| 117 | Bioconvection transport of magnetized micropolar nanofluid by a Riga plate with non-uniform heat sink/source. Waves in Random and Complex Media, 0, , 1-20. | 2.7 | 6 |
| 118 | Implication of Bio-convective Marangoni flow of non-Newtonian material towards an infinite disk subject to exponential space-based heat source. International Journal of Modern Physics B, 2021, 35, . | 2.0 | 6 |
| 119 | Analytical Solution for the Flow of a Generalized Oldroyd-B Fluid in a Circular Cylinder. Open Journal of Mathematical Sciences, 2017, 1, 85-96. | 0.7 | 6 |
| 120 | Heat transfer enhancement of hybrid nanofluids over porous cone. International Journal of Chemical Reactor Engineering, 2022, 20, 465-473. | 1.1 | 6 |
| 121 | Convective heat transfer in magnetized flow of nanofluids between two rotating parallel disks. International Journal of Chemical Reactor Engineering, 2022, 20, 411-422. | 1.1 | 5 |
| 122 | Numerical study for bioconvection transport of micropolar nanofluid over a thin needle with thermal and exponential space-based heat source. Case Studies in Thermal Engineering, 2021, 26, 101158. | 5.7 | 5 |
| 123 | Significance of melting process in magnetized transport of hybrid nanofluids: A three-dimensional model. AEJ - Alexandria Engineering Journal, 2022, 61, 3949-3957. | 6.4 | 5 |
| 124 | Cattaneo-Christov heat and mass flux effect on upper-convected Maxwell nanofluid with gyrotactic motile microorganisms over a porous sheet. Sustainable Energy Technologies and Assessments, 2022, 52, 102037. | 2.7 | 5 |
| 125 | Bio-convective couple stress nanofluid behavior analysis with temperature-dependent viscosity and higher order slip encountered by a moving surface. International Journal of Modern Physics B, 2021, 35, 2150199. | 2.0 | 4 |
| 126 | Numerical study for bioconvection in magnetized flow of micropolar nanofluid utilizing gyrotactic motile microorganisms. Waves in Random and Complex Media, 0, , 1-16. | 2.7 | 4 |

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| 127 | Inspection of thermal jump conditions on nanofluids with nanoparticles and multiple slip effects. Scientific Reports, 2022, 12, 5586. | 3.3 | 3 |
| 128 | Cattaneoâ€“Christov double diffusion and bioconvection in magnetohydrodynamic three-dimensional nanomaterials of non-Newtonian fluid containing microorganisms with variable thermal conductivity and thermal diffusivity. Waves in Random and Complex Media, 0, , 1-20. | 2.7 | 3 |
| 129 | In vitro cytotoxicity study of virgin, ethylenediaminetetraacetic acid- and hexamethylenetetramine-capped silica particles synthesized by precipitation method. Chemical Papers, 2020, 74, 1779-1789. | 2.2 | 2 |
| 130 | Inspection of modified Fourierâ€™s and Fickâ€™s laws in magnetized transport of Oldroyd-B nanofluid with swimming motile microorganisms: a theoretical model. European Physical Journal Plus, 2021, 136, 1. | 2.6 | 2 |
| 131 | Nonlinear radiative transport of hybrid nanofluids due to moving sheet with entropy generation. International Journal of Chemical Reactor Engineering, 2021, . | 1.1 | 2 |
| 132 | Numerical simulation for magnetized transport of hybrid nanofluids with exponential space-based heat source. International Journal of Modern Physics B, 2021, 35, . | 2.0 | 2 |
| 133 | Comprehensive analysis of thermally radiative transport of Sisko fluid over a porous stretchable curved surface with gold nanoparticles. International Journal of Modern Physics B, 2022, 36, . | 2.0 | 2 |
| 134 | Thermal outcomes of Williamson pseudo-plastic nanofluid with microorganisms due to the heated Riga surface with bio-fuel applications. Waves in Random and Complex Media, 0, , 1-24. | 2.7 | 2 |
| 135 | Shear thinning and shear thickening aspects in magnetized 3D cross-nanofluid flow with activation energy and motile microorganisms. Waves in Random and Complex Media, 0, , 1-20. | 2.7 | 1 |
| 136 | Melting heat transfer in bioconvective transport of Williamson nanofluid over a wedge with exponential space and thermal-dependent heat source. Waves in Random and Complex Media, 0, , 1-31. | 2.7 | 0 |
| 137 | Marangoni transport of Jeffrey nanofluid due to circular horizontal cylinder with motile microorganisms. Waves in Random and Complex Media, 0, , 1-20. | 2.7 | 0 |