Khursheed Muhammad

Assistant Professor

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About

Dr. Khursheed Muhammad is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Khursheed Muhammad has a PhD in Mathematics. Dr. Khursheed Muhammad has published 72 research articles & conference papers having a citation count of 1539, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics 2017 - 2021
Quaid-i-Azam University , Pakistan

MPhil in Mathematics 2014 - 2016
Quaid-i-Azam University , Pakistan

MSc in Mathematics 2012 - 2014
Quaid-i-Azam University , Pakistan

BSc in Mathematics 2007 - 2009
Abdul Wali Khan University, Mardan , Pakistan

Experience

Assistant Professor 2022- Present
School of Electrical Engineering and Computer Science

Assistant Professor 2022 - 2022
School of Electrical Engineering and Computer Science

Visiting Faculty 2021 - 2022
Quaid-I-Azam University Islamabad , Quaid-I-Azam University Islamabad

Visiting Faculty 2021 - 2022
Quaid-I-Azam University Islamabad , Quaid-I-Azam University Islamabad

Visiting Faculty 2021 - 2021
Quaid-I-Azam University Islamabad , Quaid-I-Azam University Islamabad

Visiting Faculty 2021 - 2021
Quaid-I-Azam University Islamabad , Quaid-I-Azam University Islamabad

Research Articles

Significance of Brownian diffusion and thermophoresis in energy and mass optimization for Newtonian and Non-Newtonian fluid flow: A numerical study via Keller-Box method 2025

Khursheed Muhammad Mahnoor Sarfraz Haifaa F. Alrihieli Ibrahim E. Elseesy

Case Studies in Thermal Engineering, Volume 198, Article Number 116621

Impact Factor: 6.400 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.csite.2025.106365

Optimization of energy transport via electro-thermal hybrid nanofluid in parallel disks: A Keller-Box simulation 2025

Khursheed Muhammad Mahnoor Sarfraz Abdelhalim Ebaid Hela Elmannai

Chaos, Solitons & Fractals , Volume 198, Article Number 116621

Impact Factor: 5.300 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.chaos.2025.116621

Assessing entropy production in a rotating flow of Jeffrey fluid subjected to frictional heating using two computational methods 2025

Meraj Mustafa Hashmi Khursheed Muhammad Iqra Nasir Malik Sana Fakhar

Results in Engineering, Volume:26, Article Number 105242

Impact Factor: 6.000 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.rineng.2025.105242

Entropy analysis in Darcy-Forchheimer flow of nanofluids with thermal radiation: A comparative numerical study 2025

Khursheed Muhammad Rabiya Yaqoob Mukhlisa Soliyeva

Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, Pages 1-13

Impact Factor: 4.200 | **Quartile:** 2

DOI: 10.1177/23977914251342063

Flow and heat transfer analysis of hybrid nanofluid due to coaxial cylinders: A comparative study via Keller-box scheme 2025

Khursheed Muhammad Mahnoor Sarfraz Musa Adam Aigo

Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, Pages 1-15

Impact Factor: 4.200 | **Quartile:** 2

DOI: 10.1177/23977914251333298

Synergistic effects of cadmium telluride and graphite nanoparticles with entropy analysis through Keller-box method 2025

Mahnoor Sarfraz Khursheed Muhammad N. Ameer Ahammad Ibrahim E. Elseesy

International Communications in Heat and Mass Transfer, Volume:163, Article Number 108667

Impact Factor: 6.400 | **Quartile:** 1 | **Citations:** 4

DOI: https://doi.org/10.1016/j.icheatmasstransfer.2025.108667

Modulation of energy transport in stagnation point flows involving hybrid nanofluids 2025

Mahnoor Sarfraz Khursheed Muhammad

Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, Pages 1-12

Impact Factor: 4.200 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1177/23977914251322202

Examining heat transfer in an annular region bounded by an inner stretching and outer stationary cylinder considering variable properties 2025

Alhagie Cham Meraj Mustafa Hashmi Khursheed Muhammad

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Pages 1-11

Impact Factor: 1.800 | **Quartile:** 3

DOI: 10.1177/09544062251324108

Improving thermal efficiency through Cu-MoS2 hybrid nanomaterials: A numerical and statistical approach 2025

Khursheed Muhammad Mahnoor Sarfraz N. Ameer Ahammad Ibrahim E. Elseesy

Chaos, Solitons & Fractals , Volume 192, Article Number 116014

Impact Factor: 5.300 | **Quartile:** 1 | **Citations:** 2

DOI: https://doi.org/10.1016/j.chaos.2025.116014

Numerical solutions for thermal and solutal transport of Jeffrey fluid flow subject to rotation via Keller–Box method 2025

Mahnoor Sarfraz Khursheed Muhammad

Multiscale and Multidisciplinary Modeling, Experiments and Design, Volume:8, Issue:3, Article Number 177

Impact Factor: 1.900 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1007/s41939-024-00714-x

Regression analysis of squeezing-induced hybrid nanofluid flow in Darcy-Forchheimer porous medium 2025

Khursheed Muhammad M. Sarfraz

Applied Mathematics and Mechanics, Volume 46(1), Pages 193-208

Impact Factor: 4.500 | **Quartile:** 1 | **Citations:** 6

DOI: doi.org/10.1007/s10483-025-3202-9

Peristaltic flow of MHD Casson nanofluid with heat source/sink and thermal radiation 2025

Zahid Nisar Khursheed Muhammad F. M. Aldosari Ibrahim E. Elseesy

ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik, Volume: 105, Issue:1, Article Number: e202300964, Pages:16

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 5

DOI: https://doi.org/10.1002/zamm.202300964

Heat and mass transfer analysis in flow of Walter's B nanofluid: A numerical study of dual solutions 2025

Khursheed Muhammad M. Sarfraz Haifaa F. Alrihieli Mostafa A. H. Abdelmohimen

ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Volume:105, Issue:01, Article Number: e202300951, Pages: 12

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 12

DOI: DOI: 10.1002/zamm.202300951

Entropy generation outcomes in peristalsis of Carreau–Yasuda nanofluid flow with activation energy 2024

Hina Zahir Khursheed Muhammad Zahid Nisar Mrim M. Alnfiai Ibrahim E. Elseesy

ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Pages: 16, Article Number: e202300983

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1002/zamm.202300983

Mathematical modeling and analysis for radiative MHD peristaltic flow of Bingham nanofluid 2024

Zahid Nisar Bilal Ahmed Arsalan Aziz Khursheed Muhammad Hamiden Abd El-Wahed Khalifa Irshad Ahmad

ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Pages 1-15, Article Number e202300840

Impact Factor: 2.300 | **Quartile:** 1 | **Citations:** 7

DOI: https://doi.org/10.1002/zamm.202300840

Effect of chemical reactions and melting heat on the dynamics of Maxwell nanofluid flow 2024

Khursheed Muhammad T. Hayat Inayatullah S. Momani

ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Volume: 104, Issue: 10 , Article Number; e202400204, Pages:11

Impact Factor: 2.300 | **Quartile:** 1

DOI: doi.org/10.1002/zamm.202400204

Statistical and numerical analysis of electrically conducting hybrid nanomaterial near the stagnation region 2024

Khursheed Muhammad Zahid Nisar Abdullah M. S. Alhuthali Mohamed Hussien

Journal of Thermal Analysis and Calorimetry, Pages 1-10

Impact Factor: 3 | **Quartile:** 2 | **Citations:** 16

DOI: 10.1007/s10973-024-13095-7

Engineering applications development through OHAM in heat and mass transfer during stagnant flow of second-grade nanomaterial 2024

Khursheed Muhammad Tasawar Hayat Shaher Momani

Modern Physics Letters B, Pages 1-21

Impact Factor: 1.9 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1142/S0217984924501604

Numerical simulations of entropy generation and Arrhenius activation energy on peristaltic transport of Prandtl-Eyring fluid in a curved conduit 2024

Khursheed Muhammad Hina Zahir Fizza Ali Hassan Ali Ghazwani Mohamed Hussien

ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Volume: 104, Issue: 4, Article Number: e202300730, Pages:19

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 4

DOI: 10.1002/zamm.202300730

Comparative study of stagnation point nanofluid flow with partial slips using shooting technique 2023

Khursheed Muhammad Haifaa F. Alrihieli F. M. Allehiany Fehmi Gamaoun

Journal of Thermal Analysis and Calarometry, Pages 1-10

Impact Factor: 4.4 | **Quartile:** 1 | **Citations:** 5

DOI: doi.org/10.1007/s10973-023-12736-7

Numerical study for bioconvection peristaltic flow of Sisko nanofluid with Joule heating and thermal radiation 2023

Zahid Nisar Bilal Ahmed Hassan Ali Ghazwani Khursheed Muhammad Mohamed Hussien Arsalan Aziz

Heliyon , Volume 9, Issue 12, Article Number e22505

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 13

DOI: https://doi.org/10.1016/j.heliyon.2023.e22505

Multiscale tribology analysis of MHD hybrid nanofluid flow over a curved stretching surface 2023

Khursheed Muhammad Bilal Ahmed Mohamed Sharaf Mohammad Afikuzzaman Emad A. Az-Zo'bi

Nanoscale Advances , Vol:06, Pages: 855-866

Impact Factor: 4.7 | **Quartile:** 2 | **Citations:** 14

DOI: 10.1039/d3na00688c

Entropy generation in MHD Darcy–Forchheimer flow of hybrid nanomaterial: A numerical study of local similar solution 2023

Khursheed Muhammad Tasawar Hayat Muhammad Yazman Ahmed Alsaedi

ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Pages 1-12

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 2

DOI: https://doi.org/10.1002/zamm.202200557

Significance of Joule heating for radiative peristaltic flow of couple stress magnetic nanofluid 2023

Zahid Nisar Tasawar Hayat Khursheed Muhammad Bilal Ahmed Arsalan Aziz

Journal of Magnetism and Magnetic Materials, Volume 581, Article Number 170951

Impact Factor: 2.7 | **Quartile:** 3 | **Citations:** 42

DOI: https://doi.org/10.1016/j.jmmm.2023.170951

Impacts of entropy generation for nonlinear radiative peristaltic transport of Powell-Eyring nanofluid: A numerical study 2023

Zahid Nisar Bilal Ahmed Arsalan Aziz Khursheed Muhammad Ibrahim E. Elseesy

Numerical Heat Transfer; Part A: Applications, Pages 1-19

Impact Factor: 2.0 | **Quartile:** 3 | **Citations:** 8

DOI: https://doi.org/10.1080/10407782.2023.2251673

Three-dimensional MHD flow of hybrid material between rotating disks with heat generation 2023

Khursheed Muhammad Inayatullah Taghreed A. Assiri Syed Irfan Shah Ibrahim E. Elseesy

Heliyon , Volume:9, Issue:7, Article Number:e18018

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1016/j.heliyon.2023.e18018

Heat transfer analysis in bio-convection second grade nanofluid with Cattaneo-Christov (CC) heat flux model 2023

Khursheed Muhammad T. Hayat Inayatullah A. Alsaedi

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Pages 1-8

Impact Factor: 1.822 | **Quartile:** 3 | **Citations:** 9

DOI: https://doi.org/10.1177/09544089221097684

Radiative and dissipative flow of hybrid nanofluid between two coaxial cylinders: A comparative numerical study 2023

Khursheed Muhammad Tasawar Hayat Muhammad Yazman Shaher Momani

Alexandria Engineering Journal, Volume 71, Pages 79-88

Impact Factor: 6.626 | **Quartile:** 1 | **Citations:** 10

DOI: DOI:10.1016/j.aej.2023.03.030

MHD peristaltic activity of Powell-Eyring nanomaterial through porous space with slip effects 2023

Khursheed Muhammad B. Ahmed T. Hayat A. Alsaedi

Case Studies in Thermal Engineering, Volume 45, Article Number 103001

Impact Factor: 6.268 | **Quartile:** 1 | **Citations:** 14

DOI: doi.org/10.1016/j.csite.2023.103001

Mixed convective magnetohydrodynamic flow of hybrid fluid with viscous dissipation: A numerical approach 2023

Khursheed Muhammad Nahid Fatima Shaima A.M. Abdelmohsen Haifa A. Alyousef

Journal of Magnetism and Magnetic Materials, Volume 573, Article Number 170667

Impact Factor: 3.097 | **Quartile:** 3 | **Citations:** 12

DOI: doi.org/10.1016/j.jmmm.2023.170667

Thermodynamic irreversibility effects with Marangoni convection for third grade nanofluid flow 2023

Khursheed Muhammad T. Hayat Inayat Ullah S. Momani

Heliyon , Volume 9, Issue 5, Article Number e16192

Impact Factor: 3.776 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.1016/j.heliyon.2023.e16192

Finite difference analysis of Power-law nanofluid with thermal radiation and bio-convection 2023

Khursheed Muhammad Taswar Hayat Inayat Ullah A. Alsaedi

International Journal of Modern Physics B, International Journal of Modern Physics B

Impact Factor: 1.404 | **Quartile:** 3 | **Citations:** 3

DOI: 10.1142/S0217979224500085

Squeezed flow of MHNF (modified hybrid nanofluid) with thermal radiation and C-C (Cattaneo-Christov) heat flux: A numerical study via FDM 2023

Khursheed Muhammad Khalid Abdulkhaliq M. Alharbi Nahid Fatima Awatif Alhowaityd

Materials Science and Engineering B, Volume 289, Article Number 116268

Impact Factor: 3.407 | **Quartile:** 2 | **Citations:** 15

DOI: https://doi.org/10.1016/j.mseb.2023.116268

Heat transfer and entropy analysis in squeezing flow of hybrid nanofluid (Au-CuO/NaAlg) with D-F (Darcy-Forchheimer) and C-C (Cattaneo-Christov) heat flux 2023

Khursheed Muhammad T. Hayat A. Fatima A. Alsaedi

Materials Science and Engineering B, Volume 288, Article Number 116150

Impact Factor: 3.407 | **Quartile:** 2 | **Citations:** 34

DOI: https://doi.org/10.1016/j.mseb.2022.116150

The activation energy in the radiative flow of fourth-grade nanomaterial with convective conditions 2022

Khursheed Muhammad

Waves in Random and Complex Media, Pages 1-23

Impact Factor: 4.051 | **Quartile:** 2 | **Citations:** 5

DOI: doi.org/10.1080/17455030.2022.2142321

Cattaneo-Christov (C–C) heat flux in Darcy-Forchheimer (D-F) flow of fourth-grade nanomaterial with convective heat and mass conditions 2022

Khursheed Muhammad Shaimaa A.M. Abdelmohsen Ashraf M.M. Abdelbacki A. Aziz

Case Studies in Thermal Engineering, Volume 36, Article Number 102152

Impact Factor: 6.268 | **Quartile:** 1 | **Citations:** 9

DOI: 10.1016/j.csite.2022.102152

Darcy-Forchheimer flow of hybrid nanofluid subject to melting heat: A comparative numerical study via shooting method 2022

Khursheed Muhammad Shaimaa A.M. Abdelmohsen Ashraf M.M. Abdelbacki B. Ahmed

International Communications in Heat and Mass Transfer, Volume 135, Article Number 106160

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 36

DOI: https://doi.org/10.1016/j.icheatmasstransfer.2022.106160

FDM analysis for squeezed flow of hybrid nanofluid in presence of Cattaneo-Christov (C-C) heat flux and convective boundary condition 2022

Khursheed Muhammad T. Hayat S. Momani S. Asghar

Alexandria Engineering Journal, Volume 61, Issue 6, Pages 4719-4727

Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 39

DOI: https://doi.org/10.1016/j.aej.2021.10.027

Thermal radiation and melting phenomena in bio-convective flow of third-grade nanomaterial 2022

T. Hayat Inayat Ullah Khursheed Muhammad A. Alsaedi

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Pages 1-6

Impact Factor: 1.620 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1177/09544089221100785

OHAM analysis of Newtonian heating in mixed convective flow of CNTs over a stretched cylinder 2022

Khursheed Muhammad T. Hayat Alsaedi

Alexandria Engineering Journal, Volume 61, Issue 5, Pages 3697-3707

Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 26

DOI: https://doi.org/10.1016/j.aej.2021.08.072

Joule heating in squeezed flow of hybrid nanomaterial via FDM with Cattaneo–Christov (C–C) heat flux 2022

Khursheed Muhammad Tasawar Hayat Bashir Ahmad

International Journal of Numerical Methods for Heat & Fluid Flow, Pages 1-21

Impact Factor: 4.2 | **Quartile:** 1 | **Citations:** 7

DOI: https://doi.org/10.1108/HFF-03-2021-0192

Numerical study for entropy generation and melting heat in flow of modified hybrid nanomaterial (Ag + MWCNTs + SWCNTs + Water) 2022

Khursheed Muhammad T. Hayat A. Alsaedi

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Volume 236, Issue 2, Pages 345-356

Impact Factor: 1.620 | **Quartile:** 3 | **Citations:** 6

DOI: https://journals.sagepub.com/doi/abs/10.1177/09544089211040598

Stagnation point flow of Jeffrey nanofluid with activation energy and convective heat and mass conditions 2022

Khursheed Muhammad T. Hayat A. Alsaedi

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Volume 236, Issue 2, Pages 500-511

Impact Factor: 1.620 | **Quartile:** 3 | **Citations:** 12

DOI: https://doi.org/10.1177/09544089211044245

Melting heat analysis in squeezed flow of nanofluids (SWCNTs+Water, SWCNTs+Gasoline oil, MWCNTs+Water, MWCNTs+Gasoline oil) with Cattaneo-Cristov heat flux 2022

Khursheed Muhammad T. Hayat A. Alsaedi

Proceedings of the Institution of Mechanical Engineers Part E: Journal of Process Mechanical Engineering , Volume 236, Issue 2, Pages 575-581

Impact Factor: 1.620 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.1177/09544089211063037

Melting effect and Cattaneo-Christov heat flux in fourth-grade material flow through a Darcy-Forchheimer porous medium 2021

T. Hayat Khursheed Muhammad A. Alsaedi

Applied Mathematics and Mechanics, Volume 42, Pages 1787-1798

Impact Factor: 2.866 | **Quartile:** 1 | **Citations:** 8

DOI: https://doi.org/10.1007/s10483-021-2798-6

Melting heat and viscous dissipation in flow of hybrid nanomaterial: a numerical study via finite difference method 2021

T. Hayat Khursheed Muhammad S. Momani

Journal of Thermal Analysis and Calarometry, Pages 1-9

Impact Factor: 4.626 | **Quartile:** 1 | **Citations:** 33

DOI: https://doi.org/10.1007/s10973-021-10944-7

Gyrotactic microorganism and bio-convection during flow of Prandtl-Eyring nanomaterial 2021

Tasawar Hayat Inayat Ullah hursheed Muhammad Ahmed Alsaedi

Nonlinear Engineering, Volume 10, Issue 1, Pages 201-212

Impact Factor: N/A | **Citations:** 41

DOI: https://doi.org/10.1515/nleng-2021-0015

Numerical study of melting heat transfer in stagnation-point flow of hybrid nanomaterial (MWCNTs+Ag+kerosene oil) 2021

Tasawar Hayat Khursheed Muhammad Ahmed Alsaedi

International Journal of Numerical Methods for Heat & Fluid Flow, Volume 31, Issue 8, Pages 2580-2598

Impact Factor: 5.181 | **Quartile:** 1 | **Citations:** 30

DOI: https://doi.org/10.1108/HFF-11-2020-0757

Heat transfer analysis in slip flow of hybrid nanomaterial (Ethylene Glycol+Ag+CuO) via thermal radiation and Newtonian heating 2021

Khursheed Muhammad T. Hayat A. Alsaedi

Waves in Random and Complex Media, Pages 1-21

Impact Factor: 4.853 | **Quartile:** 1 | **Citations:** 17

DOI: https://doi.org/10.1080/17455030.2021.1950947

FDM analysis for nonlinear mixed convective nanofluid flow with entropy generation 2021

T. Hayat Inayatullah S. Momani Khursheed Muhammad

International Communications in Heat and Mass Transfer, Volume 126, Article Number 105389

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 41

DOI: https://doi.org/10.1016/j.icheatmasstransfer.2021.105389

OHAM analysis of fourth grade nanomaterial in presence of stagnation point and convective heat-mass conditions 2021

Khursheed Muhammad T. Hayat A. Alsaedi

Waves in Random and Complex Media, Pages 1-17

Impact Factor: 4.853 | **Quartile:** 1 | **Citations:** 8

DOI: https://doi.org/10.1080/17455030.2021.1892865

Numerical study for melting heat in dissipative flow of hybrid nanofluid over a variable thicked surface 2021

Khursheed Muhammad T. Hayat A. Alsaedi

International Communications in Heat and Mass Transfer, Volume 121, Article Number 104805

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 54
DOI: https://doi.org/10.1016/j.icheatmasstransfer.2020.104805

Melting heat transfer in squeezing flow of basefluid (water), nanofluid (CNTs + water) and hybrid nanofluid (CNTs + CuO + water) 2021

K. Muhammad T. Hayat A. Alsaedi B. Ahmad

Journal of Thermal Analysis and Calorimetry, Volume 143, Issue 2, Pages 1157-1174

Impact Factor: 4.755 | **Quartile:** 1 | **Citations:** 88
DOI: https://doi.org/10.1007/s10973-020-09391-7

Numerical study of Newtonian heating in flow of hybrid nanofluid (SWCNTs + CuO + Ethylene glycol) past a curved surface with viscous dissipation 2021

Khursheed Muhammad T. Hayat A. Alsaedi

Journal of Thermal Analysis and Calorimetry, Volume 143, Issue 2, Pages 1291-1302

Impact Factor: 4.755 | **Quartile:** 1 | **Citations:** 57
DOI: https://doi.org/10.1007/s10973-020-10196-x

Mixed convective slip flow of hybrid nanofluid (MWCNTs + Cu + Water), nanofluid (MWCNTs + Water) and base fluid (Water): a comparative investigation 2021

Khursheed Muhammad T. Hayat A. Alsaedi B. Ahmad S. Moman

Journal of Thermal Analysis and Calorimetry, Volume 143, Issue 2, Pages 1523-1536

Impact Factor: 4.755 | **Quartile:** 1 | **Citations:** 78
DOI: 10.1007/S10973-020-09577-Z

A comparative study for convective flow of basefluid (gasoline oil), nanomaterial (SWCNTs) and hybrid nanomaterial (SWCNTs + MWCNTs) 2021

Khursheed Muhammad T. Hayat A. Alsaedi B. Ahmed

Applied Nanoscience, Volume,11, Issue 1, Pages 9-20

Impact Factor: 3.869 | **Quartile:** 3 | **Citations:** 37
DOI: https://doi.org/10.1007/s13204-020-01559-9

Numerical study of entropy production minimization in Bödewadt flow with carbon nanotubes 2020

Khursheed Muhammad T. Hayat A. Alsaedi B. Ahmad

Physica A: Statistical Mechanics and its Applications, Volume 550, Article Number 123966

Impact Factor: 3.263 | **Quartile:** 2 | **Citations:** 35
DOI: https://doi.org/10.1016/j.physa.2019.123966

Numerical study of melting effect with entropy generation minimization in flow of carbon nanotubes 2020

Fawaz E. Alsaadi Khursheed Muhammad T. Hayat A. Alsaedi S. Asghar

Journal of Thermal Analysis and Calorimetry, Volume 140, Issue 1, Pages 321-329

Impact Factor: 4.626 | **Quartile:** 1 | **Citations:** 32
DOI: hhttps://doi.org/10.1007/s10973-019-08720-9

Numerical simulation for Darcy-Forchheimer flow of carbon nanotubes due to convectively heated nonlinear curved stretching surface 2019

Muhammad Ijaz Khan Khursheed Muhammad Tasawar Hayat Shahid Farooq Ahmed Alsaedi

International Journal of Numerical Methods for Heat & Fluid Flow, Volume 29, Issue 9, Pages 3290-3304

Impact Factor: 2.871 | **Quartile:** 1 | **Citations:** 38
DOI: https://doi.org/10.1108/HFF-01-2019-0016

Melting effect in MHD stagnation point flow of Jeffrey nanomaterial 2019

T. Hayat Khursheed Muhammad A Alsaedi

Physica Scripta, Volume 94, Issue 11, Article Number 115702

Impact Factor: 1.985 | **Quartile:** 2 | **Citations:** 30
DOI: https://doi.org/10.1088/1402-4896/ab210e

Melting effect in squeezing flow of third-garde fluid with non-Fourier heat flux model 2019

T. Hayat Khursheed Muhammad A Alsaedi B. Ahmed

Physica Scripta, Volume 94, Issue 10, Article Number 105705

Impact Factor: 1.985 | **Quartile:** 2 | **Citations:** 31
DOI: https://doi.org/10.1088/1402-4896/ab1c2c

Stagnation point flow of basefluid (gasoline oil), nanomaterial (CNTs) and hybrid nanomaterial (CNTs + CuO): A comparative study 2019

Khursheed Muhammad T. Hayat A Alsaedi S. Asghar

Materials Research Express, Volume 6, Issue 10, Article Number 105003

Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 41

DOI: https://doi.org/10.1088/2053-1591/ab356e

Squeezed flow of Jeffrey nanomaterial with convective heat and mass conditions 2019

Khursheed Muhammad T. Hayat A. Alsaedi

Physica Scripta, Volume 94, Issue 10, Article Number 105703

Impact Factor: 1.985 | **Quartile:** 1 | **Citations:** 34

DOI: https://doi.org/10.1088/1402-4896/ab234f

Features of Darcy-Forchheimer flow of carbon nanofluid in frame of chemical species with numerical significance 2019

Tasawar Hayat Khursheed Muhammad Ahmed Alsaedi Muhammas Farooq

Journal of Central South University, Volume 26, Issue 5, Pages 1260-1270

Impact Factor: 1.249 | **Quartile:** 3 | **Citations:** 17

DOI: https://doi.org/10.1007/s11771-019-4085-8

Theoretical investigation of chemically reactive flow of water-based carbon nanotubes (single-walled and multiple walled) with melting heat transfer 2019

Tasawar Hayat Khursheed Muhammad M Ijaz Khan A Alsaedi

Pramana - Journal of Physics, Volume 92, Issue 4, Article Number: 57

Impact Factor: 1.688 | **Quartile:** 3 | **Citations:** 48

DOI: https://doi.org/10.1007/s12043-019-1722-6

Rotating squeezed flow with carbon nanotubes and melting heat 2019

T. Hayat Khursheed Muhammad I. Ullah A Alsaedi S. Asghar

Physica Scripta, Volume 94, Issue 3, Article Number 035702

Impact Factor: 1.985 | **Quartile:** 2 | **Citations:** 30

DOI: https://doi.org/10.1088/1402-4896/aaef66

Thermodynamics by melting in flow of an Oldroyd-B material 2018

T. Hayat Khursheed Muhammad A. Alsaedi S. Asghar

Journal of the Brazilian Society of Mechanical Sciences and Engineering, Volume 40, Issue 11, Article Number: 530

Impact Factor: 1.743 | **Quartile:** 3 | **Citations:** 29

DOI: https://doi.org/10.1007/s40430-018-1447-3

Melting Heat in Radiative Flow of Carbon Nanotubes with Homogeneous-Heterogeneous Reactions 2018

Tasawar Hayat Khursheed Muhammad Taseer Muhammad Ahmed Alsaedi

Communications in Theoretical Physics, Volume 69, Issue 4, Pages 441-448

Impact Factor: 1.416 | **Quartile:** 3 | **Citations:** 42

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