Meraj Mustafa Hashmi

Professor

School of Natural Sciences

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About

Dr. Meraj Mustafa Hashmi is working as Professor in the School of Natural Sciences. Dr. Meraj Mustafa Hashmi has a PhD in Fluid Mechanics. Dr. Meraj Mustafa Hashmi has published 166 research articles & conference papers having a citation count of 7268, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Fluid Mechanics 2007 - 2011
Quaid-i-Azam University , Pakistan

MSc in Mathematics 2005 - 2007
Quaid-i-Azam University , Pakistan

BSc in Mathematics And Physics 2003 - 2005
University of the Punjab , Pakistan

Experience

Professor 2021- Present
School of Natural Sciences

Associate Professor 2017 - 2021
School of Natural Sciences

Assistant Professor 2015 - 2017
School of Natural Sciences

Assistant Professor 2013 - 2015
School of Natural Sciences

Assistant Professor 2012 - 2013
Research Centre for Modelling & Simulation

Assistant Professor 2011 - 2012
Research Centre for Modelling & Simulation

Lecturer 2010 - 2011
Research Centre for Modelling & Simulation

Awards

Best researcher award 2016
Best researcher of School of Natural Sciences (SNS) for the year 2016

RPA-PCST(2014)
Recipient of the Research Productivity Award for the year 2014 under Category A.

RPA-PCST(2015)
Recipient of the Research Productivity Award for the year 2015 under Category A.

Research Projects

National Projects

Modeling and computational analysis of rotationally symmetric flows involving non-Newtonian fluids 2022

Funding Agency: HEC
Amount: PKR 1,033,000.00
Status: Completed

International Projects

Research Articles

Exploration of variable fluid properties in a pressure gradient driven generalized vortex flow dynamics using numerical approach 2025

Ariba Shakeel Meraj Mustafa Hashmi Kohilavani Naganthran

Modern Physics Letters B, Volume:39, Issue:27, Article Number 2550136

Impact Factor: 2.200 | **Quartile:** 1
DOI: 10.1142/S0217984925501362

Dynamics of submicron deposition in Reiner-Rivlin fluid confined between spinning and stretching coaxial disks: A comparative approach 2025

Noor-E-Sakha . Meraj Mustafa Hashmi

International Journal of Modern Physics B, Volume:39, Issue:23,

Impact Factor: 2.800 | **Quartile:** 1
DOI: 10.1142/S021797922550211X

Machine learning-inspired uncertainty analysis of unsteady flow along a deforming cylinder with variable physical properties 2025

Iqra Nasir Malik Meraj Mustafa Hashmi Tahir Mehmood

PRAMANA-JOURNAL OF PHYSICS, Volume:99, Article Number:91, Pages:15

Impact Factor: 2.1 | **Quartile:** 2
DOI: 10.1007/s12043-025-02931-6

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

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

Assessment of Bödewadt flow over a stretchable porous surface with variable physical properties: A comparative study 2025

Meraj Mustafa Hashmi Ariba Shakeel

Numerical Heat Transfer, Part B: Fundamentals, Volume:86, Issue:1, Pages 29-42

Impact Factor: 3.800 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1080/10407790.2023.2274452

Exploring entropy production in MHD Walters-B fluid motion in a rotating frame with frictional heating using OHAM based package BVPh 2.0 2024

Sana Fakhar Meraj Mustafa Hashmi Tayyaba Ibrahim

International Journal of Hydrogen Energy, Volume 90, Pages 1252-1262

Impact Factor: 8.100 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1016/j.ijhydene.2024.09.455

Application of artificial neural networking to scrutinize the three-dimensional stagnation-point flow with variable physical properties 2024

Sana Saleem Rizwan Ul Haq Meraj Mustafa Hashmi Feroz Ahmed Somroo

Physics of Fluids, Volume 36, Issue 10, Article Number 103631

Impact Factor: 4.100 | **Quartile:** 1 | **Citations:** 1
DOI: https://doi.org/10.1063/5.0227095

Exploring integrated heat and mass transfer in von-Kármán dynamics involving Reiner-Rivlin fluid with regression models 2024

Saddam Sultan Akbar Meraj Mustafa Ammar Mushtaq

Case Studies in Thermal Engineering, Volume 62, Article Number 105154

Impact Factor: 6.400 | **Quartile:** 1 | **Citations:** 3
DOI: https://doi.org/10.1016/j.csite.2024.105154

Regression modeling of Bödewadt slip flow dynamics involving Reiner-Rivlin nanofluid based on a modified Buongiorno approach 2024

Tayyaba Ibrahim Meraj Mustafa Junaid Ahmad Khan Ammar Mushtaq

Physica scripta, Volume 99, Number 10, Article Number 105042

Impact Factor: 2.600 | **Quartile:** 2
DOI: 10.1088/1402-4896/ad78c1

Examining stagnation-point flow impinging on a deforming cylinder in Reiner-Rivlin fluid with integrated heat and mass transfer 2024

Alhagie Cham Meraj Mustafa Hashmi

Case Studies in Thermal Engineering, Volume 60, Article Number 104598

Impact Factor: 6.400 | **Quartile:** 1 | **Citations:** 3
DOI: 10.1016/j.csite.2024.104598

Boundary layer formations over a stretchable heated cylinder in a viscoelastic fluid with partial slip and viscous dissipation effects 2024

Alhagie Cham Meraj Mustafa Hashmi

Numerical Heat Transfer, Part A: Applications, Volume 85, Issue 11, Pages 1767-1779

Impact Factor: 2.000 | **Quartile:** 3 | **Citations:** 11
DOI: 10.1080/10407782.2023.2210259

A novel model for viscoelastic fluid flow and heat near a stretchable plate using variable fluid properties: A computational study 2024

Laiba Gull Meraj Mustafa Hashmi Rizwan Ul Haq

Numerical Heat Transfer, Part B: Fundamentals, Volume 85, Issue 6, Pages 649-661

Impact Factor: 1.000 | **Quartile:** 4 | **Citations:** 6
DOI: 10.1080/10407790.2023.2252601

Modeling slip flow of Bingham fluid induced by a porous revolving disk with viscous dissipation and Joule heating effects 2024

Haleema Sadia Meraj Mustafa Hashmi Tahir Mehmood

Journal of Thermal Analysis and Calarometry, Volume 149, Issue 11, Pages 5555-5567

Impact Factor: 3.0 | **Quartile:** 2 | **Citations:** 3
DOI: https://doi.org/10.1007/s10973-024-13260-y

Exploring slip flow of viscoelastic fluid with frictional heating effects: Uncertainty analysis using response surface methodology (RSM) 2024

Laiba Gull Ammar Mushtaq Tahir Mehmood Meraj Mustafa

International Communications in Heat and Mass Transfer, Volume:155, Article Number: 107548

Impact Factor: 7.0 | **Quartile:** 1 | **Citations:** 8
DOI: 10.1016/j.icheatmasstransfer.2024.107548

Coupled heat and mass transfer to viscoelastic fluid flow in a rotating frame using series and numerical solutions 2024

Saddam Sultan Akbar Meraj Mustafa Hashmi

International Journal of Heat and Fluid Flow, Volume 106, Article Numebr: 109294

Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 9
DOI: 10.1016/j.ijheatfluidflow.2024.109294

Numerical investigation of Reiner–Rivlin fluid flow and heat transfer over a shrinking rotating disk 2024

Suguneswaran Puspanathan Kohilavani Naganthran Meraj Mustafa Hashmi Ishak Hashim Shaher Momani

Chinese Journal of Physics, Volume 88, Pages 198-211

Impact Factor: 5.000 | **Quartile:** 1 | **Citations:** 9
DOI: 10.1016/j.cjph.2024.01.021

Exploring the Dynamics of Second-Grade Fluid Motion and Heat Over a Deforming Cylinder or Plate Affected by Partial Slip Conditions 2024

Alhagie Cham Meraj Mustafa Hashmi

Arabian Journal for Science and Engineering, Volume:49, Issue:2, Page:1505-1514

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 12

DOI: 10.1007/s13369-023-07893-8

Analytical solution for unsteady Walters-B fluid flow by a deforming surface with acceleration using OHAM based package BVPh2.0 2024

Iqra Nasir Malik Meraj Mustafa Hashmi

Physica Scripta , Volume 99, Number 1, Article Number: 015001, Pages: 12

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1088/1402-4896/ad0f84

Unsteady flow over a rotating and vertically moving disk with variable fluid properties 2023

Saddam Sultan Akbar Meraj Mustafa Hashmi

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Volume 237, Issue 5, Pages 1679-1687

Impact Factor: 2.4 | **Quartile:** 3

DOI: 10.1177/095440892211244

Numerical exploration of slip effects on second-grade fluid motion over a porous revolving disk with heat and mass transfer 2023

Haleema Sadia Meraj Mustafa Hashmi

Heliyon , Volume:9, Issue:8, Article Number:e18683

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 14

DOI: 10.1016/j.heliyon.2023.e18683

Numerical and series solutions for Von-Kármán flow of viscoelastic fluid inspired by viscous dissipation and Joule heating effects 2023

Haleema Sadia Meraj Mustafa Hashmi Muhammad Asif Farooq

Alexandria Engineering Journal , Volume 75, Pages 181-190

Impact Factor: 6.626 | **Quartile:** 1 | **Citations:** 14

DOI: 10.1016/j.aej.2023.05.075

Numerical exploration of buoyancy inspired flow of pseudoplastic fluid along a vertical cylinder with viscous dissipation effects 2023

Iram Showkat Ammar Mushtaq Meraj Mustafa

Alexandria Engineering Journal , Volume 74, Pages 415-425

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

DOI: https://doi.org/10.1016/j.aej.2023.05.039

Application of Exponential Temperature Dependent Viscosity Model for Fluid Flow over a Moving or Stationary Slender Surface 2022

Saddam Sultan Akbar Meraj Mustafa Hashmi

Mathematics , Volume 10, Issue 18, Article Number 3269

Impact Factor: 2.4 | **Quartile:** 1 | **Citations:** 6

DOI: 10.3390/math10183269

A numerical study of rotationally symmetric nanofluid flow over a permeable surface using Buongiorno model 2022

Sahreen Tahira Ammar Mushtaq Meraj Mustafa

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Volume 236, Issue 4, Pages 1652-1660

Impact Factor: 1.822 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.1177/09544089211073251

A comparative study of different viscosity models for unsteady flow over a decelerating rotating disk with variable physical properties 2022

Iqra Ejaz Meraj Mustafa Hashmi

International Communications in Heat and Mass Transfer, Volume 135, Article Number 106155

Impact Factor: 6.782 | **Quartile:** 1 | **Citations:** 17

DOI: 10.1016/j.icheatmasstransfer.2022.106155

Rotationally symmetric flow of Cu-Al2O3/water hybrid nanofluid over a heated porous boundary 2022

Ammar Mushtaq Meraj Mustafa Hashmi Sahreen Tahira

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Volume 236, issue 3, Pages 1524-1534

Impact Factor: 1.762 | **Quartile:** 3 | **Citations:** 6
DOI: https://doi.org/10.1177/09544062211023104

A novel formulation and analysis for heat transfer in von Kármán flow involving viscoelastic fluid: OHAM solutions 2022

Muhammad Burhan Jafeer Meraj Mustafa Hashmi

Journal of Thermal Analysis and Calorimetry, Volume 147, Pages 477-488

Impact Factor: 4.4 | **Quartile:** 1 | **Citations:** 8
DOI: 10.1007/s10973-020-10244-6

Falkner-Skan flow of nanofluid past a static wedge with partial slip conditions using different models 2021

Ammara Bhatti Meraj Mustafa Hashmi Talat Rafiq

International Communications in Heat and Mass Transfer, Volume 129, Article Number 105690

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 7
DOI: 10.1016/j.icheatmasstransfer.2021.105690

Bödewadt flow of Bingham fluid over a permeable disk with variable fluid properties: A numerical study 2021

Meraj Mustafa Hashmi Talat Rafiq Sadia Hina

International Communications in Heat and Mass Transfer, Volume 127, Article Number 105540

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 10
DOI: 10.1016/j.icheatmasstransfer.2021.105540

Rotationally symmetric flow of Reiner-Rivlin fluid over a heated porous wall using numerical approach 2021

Junaid Ahmad Khan Talat Rafiq Meraj Mustafa Hashmi

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science , Pages 1-12

Impact Factor: 1.758 | **Quartile:** 3 | **Citations:** 12
DOI: https://doi.org/10.1177/09544062211034204

Steadily revolving flow of Sisko fluid along a stretchable boundary with non-linear radiation effects 2021

Talat Rafiq Meraj Mustafa Hashmi

Pramana-Journal of Physics , Volume 95, Article Number: 120

Impact Factor: 2.219 | **Quartile:** 2 | **Citations:** 6
DOI: https://doi.org/10.1007/s12043-021-02149-2

Bodewadt flow of Bingham fluids over a non-isothermal permeable disk with viscous dissipation effects 2021

Talat Rafiq Meraj Mustafa Hashmi

Alexandria Engineering Journal , Volume 60, Issue 3, Pages 2857-2864

Impact Factor: 6.626 | **Quartile:** 1 | **Citations:** 13
DOI: 10.1016/j.aej.2021.01.020

A study of heat transfer and entropy generation in von Kármán flow of Reiner-Rivlin fluid due to a stretchable disk 2021

Muhammad Usman Rashid Meraj Mustafa Hashmi

Ain Shams Engineering Journal, Volume 12, Issue 1, Pages 875-883

Impact Factor: 4.790 | **Quartile:** 1 | **Citations:** 40
DOI: https://doi.org/10.1016/j.asej.2020.06.017

A study of elastico-viscous fluid flow by a revolving disk with heat dissipation effects using HAM based package BVPh 2.0 2021

Muhammad Burhan Jafeer Meraj Mustafa Hashmi

Scientific Reports , Volume 11, Article Number 4514

Impact Factor: 4.997 | **Quartile:** 2 | **Citations:** 16
DOI: https://doi.org/10.1038/s41598-021-83864-z

Analytical solutions for fluid flow triggered by a melting cylindrical surface in upper-convected Maxwell (UCM) fluid 2021

Rai Sajjad Saif Meraj Mustafa Muhammad F. Afzaal Hamid Assilzadeh

International Communications in Heat and Mass Transfer, Volume 121, Article Number 105059

Impact Factor: 6.782 | **Quartile:** 1 | **Citations:** 14
DOI: https://doi.org/10.1016/j.icheatmasstransfer.2020.105059

Second law analysis of heat transfer in swirling flow of Bingham fluid by a rotating disk subjected to suction effect 2021

Maria Tabassum Mahmood Rahi Meraj Mustafa Hashmi

Thermal Science , Volume 25, Issue 1, Part A, Pages 13-24

Impact Factor: 1.971 | **Quartile:** 3 | **Citations:** 16

DOI: https://doi.org/10.2298/TSCI180722162M

A Novel Formulation for MHD Slip Flow of Elastico-Viscous Fluid Induced by Peristaltic Waves with Heat/Mass Transfer Effects 2020

Javeriah Rani S. Hina Meraj Mustafa Hashmi

Arabian Journal for Science and Engineering, Volume 45, Pages 9213–9225

Impact Factor: 2.334 | **Quartile:** 3 | **Citations:** 17

DOI: https://doi.org/10.1007/s13369-020-04722-0

Dual solutions for fluid flow over a stretching/shrinking rotating disk subject to variable fluid properties 2020

Ammar Mushtaq Roslinda Nazar Kohilavani Naganthran Meraj Mustafa Hashmi

Physica A: Statistical Mechanics and its Applications, Volume 556, Article Number 124773

Impact Factor: 3.263 | **Quartile:** 2 | **Citations:** 38

DOI: https://doi.org/10.1016/j.physa.2020.124773

A New Model and Analysis for Peristalsis of Carreau–Yasuda (CY) Nanofuid Subject to Wall Properties 2020

Sana Maryam Kayani Sadia Hina Meraj Mustafa Hashmi

Arabian Journal for Science and Engineering, Volume 45, Pages 5179-5190

Impact Factor: 2.334 | **Quartile:** 3 | **Citations:** 38

DOI: https://doi.org/10.1007/s13369-020-04359-z

Modeling Heat Transfer in Fluid Flow Near a Decelerating Rotating Disk with Variable Fluid Properties 2020

Talat Rafiq Muhammad Asif Farooq Talat Rafiq Meraj Mustafa Hashmi

International Communications in Heat and Mass Trasnfer, Volume 116, Article Number 104673

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 40

DOI: https://doi.org/10.1016/j.icheatmasstransfer.2020.104673

Numerical simulations of heat transfer around a circular cylinder immersed in a shear-thinning fluid obeying Cross model 2020

Sadia Hina Ayesha Shafique Meraj Mustafa Hashmi

Physica A: Statistical Mechanics and its Applications, Volume 540, Article Number 123184

Impact Factor: 3.263 | **Quartile:** 2

DOI: https://www.sciencedirect.com/science/article/pii/S0378437119317911?via%3Dihub

Computational Analysis of Unsteady Swirling Flow Around a Decelerating Rotating Porous Disk in Nanofuid 2020

Talat Rafiq Meraj Mustafa Hashmi

Arabian Journal for Science and Engineering, Volume 45, Pages 1143-1154

Impact Factor: 2.334 | **Quartile:** 3

DOI: 10.1007/s13369-019-04257-z.

Bodewadt Flow Over a Permeable Disk with Homogeneous-Heterogeneous Reactions: A Numerical Study 2019

Talat Rafiq Meraj Mustafa Hashmi

Applied Sciences-Basel , Volume 9, Issue 19, Article Number:4046

Impact Factor: 2.474 | **Quartile:** 2 | **Citations:** 15

DOI: 10.3390/app9194046

Numerical study of Bödewadt slip flow on a convectively heated porous disk in a nanofluid 2019

Talat Rafiq Meraj Mustafa Hashmi Junaid Ahmad Khan

Physica Scripta , Volume 94, Issue 9, Article Number: 095701

Impact Factor: 1.985 | **Quartile:** 2 | **Citations:** 14

DOI: https://doi.org/10.1088/1402-4896/ab1549

A Novel Approach to Develop a Closed-Form Solution for MHD Flow Induced by a Rotating Disk 2019

Zeshan Zulifqar Azad Akhter Siddiqui Meraj Mustafa Hashmi

IEEE Access , Volume 7, page 124410

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1109/ACCESS.2019.2938314

Numerical assessment of Bödewadt flow and heat transfer over a permeable disk with variable fluid properties 2019

Meraj Mustafa Hashmi Muhammad Asif Farooq Talat Rafiq

Physica A: Statistical Mechanics and its Applications, Volume 534, Article 122138

Impact Factor: 2.924 | **Quartile:** 2 | **Citations:** 28

DOI: https://doi.org/10.1016/j.physa.2019.122138

Pressure-Driven Flow of Cross Fluid Along a Stationary Plate Subject to Binary Chemical Reaction and Arrhenius Activation Energy 2019

Meraj Mustafa Hashmi Aiman Sultan Mahmood Rahi

Arabian Journal for Science and Engineering, Volume 44, Issue 6, Pages 5647-5655

Impact Factor: 1.711 | **Quartile:** 3 | **Citations:** 18

DOI: 10.1007/s13369-018-3678-0

Assisting or opposing MHD flow of cross fluid along a non-isothermal surface with variable thermal conductivity 2019

Meraj Mustafa Hashmi Aiman Sultan Mahmood Rahi

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF ME, Vol 233, Issue 14

Impact Factor: 1.386 | **Quartile:** 3 | **Citations:** 6

DOI: 10.1177/0954406219842600

Entropy generation analysis for radiative heat transfer to B?dewadt slip flow subject to strong wall suction 2018

Meraj Mustafa Hashmi Ioan Pop Kohilavani Naganthran Roslinda Nazar

European Journal of Mechanics-B Fluids, NULL

Impact Factor: 1.811 | **Quartile:** 3

DOI: https://www.sciencedirect.com/science/article/pii/S0997754618301316

Analytical and numerical approaches for Falkner?Skan flow of MHD Maxwell fluid using a non-Fourier heat flux model 2018

Saeid Abbasbandy Meraj Mustafa Hashmi

International Journal of Numerical Methods for Heat & Fluid Flow, NULL

Impact Factor: 1.958 | **Quartile:** 2 | **Citations:** 6

DOI: https://www.emeraldinsight.com/doi/abs/10.1108/HFF-08-2017-0316

Modeling MHD swirling flow due to rough rotating disk with non-linear radiation and chemically reactive solute 2018

Meraj Mustafa Hashmi Ammar Mushtaq Tasawar Hayat Ahmed Alsaedi

International Journal of Numerical Methods for Heat & Fluid Flow, NULL

Impact Factor: 1.958 | **Quartile:** 2 | **Citations:** 4

DOI: https://www.emeraldinsight.com/doi/abs/10.1108/HFF-10-2017-0403

Non-aligned MHD stagnation-point flow of upper-convected Maxwell fluid with nonlinear thermal radiation 2018

Meraj Mustafa Ammar Mushtaq Tasawar Hayat Ahmed Alsaedi

Neural Computing and Applications, NEURAL COMPUTING & APPLICATIONS Volume: 30 Issue: 5 Pages: 1549-1555

Impact Factor: 4.664 | **Quartile:** 1 | **Citations:** 7

DOI: 10.1007/s00521-016-2761-2

A revised model to study the MHD nanofluid flow and heat transfer due to rotating disk: numerical solutions 2018

Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi Meraj Mustafa Hashmi

Neural Computing and Applications, NULL

Impact Factor: 4.664 | **Quartile:** 1 | **Citations:** 30

DOI: https://link.springer.com/article/10.1007/s00521-016-2743-4

A numerical treatment for partial slip flow and heat transfer of non-Newtonian Reiner-Rivlin fluid due to rotating disk 2018

M. Mustafa Maria Tabassum

International Journal of Heat and Mass Transfer, NULL

Impact Factor: 4.346 | **Quartile:** 1

DOI: https://www.sciencedirect.com/science/article/pii/S0017931017348123

Buoyancy effects in stagnation-point flow of Maxwell fluid utilizing non-Fourier heat flux approach 2018

Ammar Mushtaq Ahmed Alsaedi Meraj Mustafa Tasawar Hayat

PLoS ONE, Volume 13 Issue 7 Article Number e0200325

Impact Factor: 2.776 | **Quartile:** 2 | **Citations:** 14

DOI: 10.1371/journal.pone.0192685

Consequences of convection-radiation interaction for magnetite-water nanofluid flow due to a moving plate 2018

Ammar Mushtaq Junaid Ahmad Khan Meraj Mustafa Hashmi Tasawar Hayat Ahmad Alsaedi

Thermal Science , Volume 22(1B), Pages 443-451

Impact Factor: 1.541 | **Quartile:** 3 | **Citations:** 3

DOI: 10.2298/TSCI151128212M

Influence of Non-linear Radiation Heat Flux on Rotating Maxwell Fluid over a Deformable Surface: A Numerical Study 2018

Ammar Mushtaq Ahmed Alsaedi Tasawar Hayat Meraj Mustafa Hashmi

Communications in Theoretical Physics, NULL

Impact Factor: 1.416 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1088/0253-6102/69/4/461

Heat transfer in Oldroyd-B fluid flow due to an exponentially stretching wall utilizing Cattaneo?Christov heat flux model 2018

Meraj Mustafa Hashmi T. Hayat A. Alsaedi

Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol.40:191, April 2018

Impact Factor: 1.743 | **Quartile:** 3 | **Citations:** 6

DOI: 10.1007/s40430-018-1132-6

A numerical analysis for non-linear radiation in MHD flow around a cylindrical surface with chemically reactive species 2018

Junaid Ahmad Khan Meraj Mustafa Hashmi

Results in Physics, Volume 8, Pages 963-970

Impact Factor: 3.042 | **Quartile:** 1 | **Citations:** 26

DOI: 10.1016/j.rinp.2017.12.067

Numerical Solutions for Radiative Heat Transfer in Ferrofluid Flow due to a Rotating Disk: Tiwari and Das Model 2018

Meraj Mustafa Junaid Ahmad Khan T. Hayat A. Alsaedi

International Journal of Nonlinear Sciences and Numerical Simulation, NULL

Impact Factor: 1.033 | **Quartile:** 3 | **Citations:** 12

DOI: 10.1515/ijnsns-2015-0196

Rotating flow of viscoelastic fluid with nonlinear thermal radiation: a numerical study 2018

Meraj Mustafa Hashmi Tasawar Hayat Ahmed Alsaedi Rida Ahmad

Neural Computing and Applications, NULL

Impact Factor: 4.664 | **Quartile:** 1 | **Citations:** 29

DOI: https://link.springer.com/article/10.1007/s00521-016-2462-x

An analytical treatment for MHD mixed convection boundary layer flow of Oldroyd-B fluid utilizing non-Fourier heat flux model 2017

Meraj Mustafa

International Journal of Heat and Mass Transfer, Volume 113, Pages 1012-1020

Impact Factor: 3.891 | **Quartile:** 1 | **Citations:** 29

DOI: 10.1016/j.ijheatmasstransfer.2017.06.002

A non-Fourier heat flux approach to model MHD Oldroyd-B fluid flow due to bidirectional stretching surface 2017

S. Hina Maimoona Munir Meraj Mustafa Hashmi

International Journal of Mechanical Sciences , Volumes 131-132, Pages 146-154

Impact Factor: 3.570 | **Quartile:** 2 | **Citations:** 25

DOI: 10.1016/j.ijmecsci.2017.06.051

Rotating flow of Oldroyd-B fluid over stretchable surface with Cattaneo - Christov heat flux Analytic solutions 2017

Meraj Mustafa Hashmi T. Hayat A. Alsaedi

International Journal of Numerical Methods for Heat & Fluid Flow, Volume:27, Issue: 10, Pages: 2207-2222

Impact Factor: 2.45 | **Quartile:** 1 | **Citations:** 16

DOI: DOI:10.1108/HFF-08-2016-0323

Numerical tackling for viscoelastic fluid flow in rotating frame considering homogeneous-heterogeneous reactions 2017

Najwa Maqsood Meraj Mustafa Hashmi Junaid Ahmad Khan

Results in Physics, NULL

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 16

DOI: 10.1016/j.rinp.2017.09.011

Computations for nanofluid flow near a stretchable rotating disk with axial magnetic field and convective conditions 2017

Ammar Mushtaq Meraj Mustafa

Results in Physics, Volume 7, Pages 3137-3144

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 38

DOI: 10.1016/j.rinp.2017.08.031

Buoyancy effects on nanofluid flow past a convectively heated vertical Riga-plate: A numerical study 2017

Rida Ahmad Meraj Mustafa Hashmi M. Turkyilmazoglu

International Journal of Heat and Mass Transfer, Volume 111, Pages 827-835

Impact Factor: 3.891 | **Quartile:** 1 | **Citations:** 148

DOI: 10.1016/j.ijheatmasstransfer.2017.04.046

Buongiorno's model for fluid flow around a moving thin needle in a flowing nanofluid: A numerical study 2017

Meraj Mustafa Hashmi Rida Ahmad S. Hina

Chinese Journal of Physics, Volume: 55 Issue: 4 Pages: 1264-1274

Impact Factor: 1.051 | **Quartile:** 3 | **Citations:** 82

DOI: 10.1016/j.cjph.2017.07.004

Peristaltic transport of Bingham plastic fluid considering magnetic field, Soret and Dufour effects 2017

Meraj Mustafa Hashmi Tasawar Hayat B. Ahmad S. Farooq

Results in Physics, RESULTS IN PHYSICS, Volume: 7, Pages: 2000-2011, 2017

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 29

DOI: 10.1016/j.rinp.2017.06.009

MHD nanofluid flow over a rotating disk with partial slip effects: Buongiorno model 2017

Meraj Mustafa Hashmi

International Journal of Heat and Mass Transfer, International Journal of Heat and Mass Transfer, Volume 108, Pages 1910-1916, 1 May 2017

Impact Factor: 3.891 | **Quartile:** 1 | **Citations:** 195

DOI: 10.1016/j.ijheatmasstransfer.2017.01.064

Numerical study of partial slip effects on MHD flow of nanofluids near a convectively heated stretchable rotating disk 2017

Meraj Mustafa Junaid Ahmad Khan

Journal of Molecular Liquids, Volume 234, Pages 287-295

Impact Factor: 4.513 | **Quartile:** 1 | **Citations:** 38

DOI: 10.1016/j.molliq.2017.03.087

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International Communications in Heat and Mass Transfer 2025
Reviewed Papers for Journals
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