Rai Sajjad Saif

Assistant Professor

School of Electrical Engineering and Computer Science

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About

Dr. Rai Sajjad Saif is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Rai Sajjad Saif has a PhD in Mathematics. Dr. Rai Sajjad Saif has published 31 research articles & conference papers having a citation count of 1323, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics 2012 - 2018
International Islamic University , Pakistan

MPhil in Applied Mathematics (Fluid Dynamics) 2008 - 2010
Quaid-i-Azam University , Pakistan

MSc in Mathematics 2006 - 2008
Quaid-i-Azam University , Pakistan

BS in Mathematics AB Physics 2002 - 2004
University of the Punjab , Pakistan

Experience

Assistant Professor 2020- Present
School of Electrical Engineering and Computer Science

Assistant Professor 2020 - 2020
School of Electrical Engineering and Computer Science

Assistant Professor 2019 - 2020
School of Electrical Engineering and Computer Science

Assistant Profession 2019 - 2022
National University of Sciences and Technology (NUST) , SEECS NUST, H-12, Islamabad, Pakistan.

TVF 2018 - 2019
National University of Sciences and Technology (NUST) , SEECS NUST, H-12, Islamabad, Pakistan.

Lecturer 2014 - 2018
Al-Hussan International Education , Al-Hussan International Education, Dammam, Kingdom of Saudi Arabia.

Lecturer 2008 - 2011
Mohi-ud-Din Islamic University , Mohi-ud-Din Islamic University, Islamabad, Pakistan.

Research Articles

Convective heat transfer for Maxwell hybrid (Cu-Al2O3,) nanofluid flow having Darcy-Forchheimer's porous medium over a stretchable cylindrical pipe 2025

Rai Sajjad Saif Zain Ul Abideen Ebrahem A. Algehyne Abdullah Alhushaybari

Modern Physics Letters B, Volume 2025, Article Number 2550153 (19 pages)

Impact Factor: 1.800 | **Quartile:** 2
DOI: 10.1142/S0217984925501532

Non-Fourier heat and mass transport enhancement by hybrid nanofluid-flow over a non-linearly stretchable surface having variable thickness 2024

Sayer Obaid Alharbi Rai Sajjad Saif Maryam Haneef Muhammad Nawaz Taseer Muhammad

Ain Shams Engineering Journal, Volume 15, Issue 10, Article Number 102980

Impact Factor: 6.000 | **Quartile:** 1 | **Citations:** 7

DOI: https://doi.org/10.1016/j.asej.2024.102980

Melting heat transmission of Maxwell nanofluid flow caused due to a stretchable cylindrical pipe through Finite Element Technique 2024

Rai Sajjad Saif Awatif Alhowaity Muhammad F. Afzaal Yussri Mohammad Mahrous Taseer Muhammad

ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik, Pages 1-11

Impact Factor: 2.300 | **Quartile:** 1 | **Citations:** 8

DOI: 10.1002/zamm.202300220

Second-grade fluid with carbon nanotubes flowing over an elongated curve surface possessing thermal radiation and internal heat generation effects 2024

Zain Ul Abideen Rai Sajjad Saif Taseer Muhammad

Journal of Thermal Analysis and Calarometry, Volume: 149, Pages: 1239-1250

Impact Factor: 4.400 | **Quartile:** 1 | **Citations:** 10

DOI: 10.1007/s10973-023-12779-w

Impact of thermal radiation and internal heat generation on Casson nano-fluid flowing by a curved stretchable surface with suspension of carbon nanotubes (CNTs) 2023

Zain ul Abideen Rai Sajjad Saif

Heliyon , Volume 9, Issue 8, Article Number e18941

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 22

DOI: 10.1016/j.heliyon.2023.e18941

Melting heat transmission for nanoliquid flow through a curved stretching sheet with Darcy–Forchheimer phenomenon 2023

Rai Sajjad Saif Taseer Muhammad

Waves in Random and Complex Media, Pages 1-22

Impact Factor: N/A

DOI: https://doi.org/10.1080/17455030.2023.2193848

Homogeneous–heterogeneous reactions for Maxwell nanofluid flow over an elongating cylindrical pipe via finite element method 2023

Mashael M. AlBaidani Maha M. A. Lashin Rai Sajjad Saif Abdul Hamid Ganie

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

Impact Factor: 1.759 | **Quartile:** 2 | **Citations:** 9

DOI: https://doi.org/10.1002/zamm.202100386

Transport mechanism under temperature and concentration gradient for nano-sized species in Maxwell viscoelastic fluid over cylindrical object moving with non-uniform velocity 2023

Rai Sajjad Saif Maryam Haneef Muhammad Nawaz Taseer Muhammad

Chemical Physics Letters , Volume 813, Article Number 140293

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 13

DOI: https://doi.org/10.1016/j.cplett.2022.140293

Numerical study of boundary stresses on Jeffery-Hamel flow subject to Soret/ Dufour effects 2023

Zaheer Asghar Rai Sajjad Saif Abu Zar Ghaffari

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Volume 237, Issue 5

Impact Factor: 1.758 | **Quartile:** 3 | **Citations:** 17

DOI: https://doi.org/10.1177/09544062221126646

Investigation of boundary stresses on MHD flow in a convergent/divergent channel: An analytical and numerical study 2022

Zaheer Asghar Rai Sajjad Saif Nasir Ali

Alexandria Engineering Journal , Volume 61, Issue 6, Pages 4479-4490

Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 24

DOI: https://doi.org/10.1016/j.aej.2021.10.004

Triple diffusion with heat transfer under different effects on magnetized hyperbolic tangent nanofluid flow 2022

Uzma Arif M. Asif Memon Rai Sajjad Saif A.S. El-Shafay Muhammad Nawaz Taseer Muhammad

Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Pages 1-11

Impact Factor: 1.620 | **Quartile:** 3 | **Citations:** 17

DOI: https://doi.org/10.1177/09544089221079139

Thermally stratified flow of hybrid nanofluids with radiative heat transport and slip mechanism: multiple solutions 2022

Rai Sajjad Saif Hashim Maria Zaman Muhammad Ayaz

Communications in Theoretical Physics, Volume 74, Number 1, Article Number 015801

Impact Factor: 3.1 | **Quartile:** 2 | **Citations:** 18

DOI: https://doi.org/10.1088/1572-9494/ac3230

Comparative analysis on the roles of different nanoparticles on mixed convection heat transfer in Newtonian fluid in Darcy-Forchheimer porous space subjected to convectively heated boundary 2021

Hadi Ali Madkhali M. Nawaz Rai Sajjad Saif Muhammad F. Afzaal Sayer Obaid Alharbi M. Kbiri Alaoui

International Communications in Heat and Mass Transfer, 128 (2021) 105580

Impact Factor: 5.683 | **Quartile:** 1 | **Citations:** 18

DOI: 10.1016/j.icheatmasstransfer.2021.105580

Heat transfer attributes of MoS2/Al2O3 hybrid nanomaterial flow through converging/diverging channels with shape factor effect 2021

Muhammad Hafeez Rai Sajjad Saif Hashim

Advances in Mechanical Engineering , Volume 13, issue 5, Pages 1-13

Impact Factor: 1.566 | **Quartile:** 4 | **Citations:** 20

DOI: https://doi.org/10.1177%2F16878140211021289

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

Boundary layer flow due to a nonlinear stretching curved surface with convective boundary condition and homogeneous-heterogeneous reactions 2020

Rai Sajjad Saif Taseer Muhammad Haleema Sadia Rahmat Ellahi

Physica A: Statistical Mechanics and its Applications, Volume 551, Article Number 123996

Impact Factor: 3.263 | **Quartile:** 2 | **Citations:** 53

DOI: https://doi.org/10.1016/j.physa.2019.123996

Hydromagnetic flow of Jeffrey nanofluid due to a curved stretching surface 2020

Rai Sajjad Saif Taseer Muhammad Haleema Sadia Rahmat Ellahi

Physica A: Statistical Mechanics and its Applications, Volume 551, Article Number 124060

Impact Factor: 3.263 | **Quartile:** 2 | **Citations:** 77

DOI: https://doi.org/10.1016/j.physa.2019.124060

Significance of inclined magnetic field in Darcy–Forchheimer flow with variable porosity and thermal conductivity 2020

Rai Sajjad Saif Taseer Muhammad Haleema Sadia

Physica A: Statistical Mechanics and its Applications, Volume 551, Article Number 124067

Impact Factor: 3.263 | **Quartile:** 2 | **Citations:** 60

DOI: https://doi.org/10.1016/j.physa.2019.124067

Thermal performance of micro-polymers containing nano-solid structures during transport phenomenon 2020

Saima Batool Muhammad Nawaz Rai Sajjad Saif Shafia Rana

Journal of Thermal Analysis and Calorimetry, Pages 1-11

Impact Factor: 4.626 | **Quartile:** 1 | **Citations:** 11

DOI: https://doi.org/10.1007/s10973-020-10017-1

Impact of monocity and hybridity of nano-structures on thermal performance of micropolar fluid with novel heat flux theory: the Cattaneo–Christov heat flux theory 2020

Muhammad Nawaz Ahmed Elmoasry Jawdat Alebraheem Rai Sajjad Saif

Journal of Materials Research and Technology, Volume 9, Issue 4, Pages 8618-8626

Impact Factor: 5.039 | **Quartile:** 1 | **Citations:** 25

DOI: https://doi.org/10.1016/j.jmrt.2020.05.063

Numerical investigation on transport of momenta and energy in micropolar fluid suspended with dusty, mono and hybrid nano-structures 2020

Hajra Kaneez Jawdat Alebraheem Ahmed Elmoasry Rai Sajjad Saif M. Nawaz

AIP Advances, Volume 10, Article Number 045120

Impact Factor: 1.548 | **Quartile:** 4 | **Citations:** 32

DOI: doi: 10.1063/5.0003042

Darcy-Forchheimer flow of nanofluid due to a curved stretching surface 2019

Rai Sajjad Saif Tasawar Hayat Rahmat Ellahi Taseer Muhammad Ahmed Alsaedi

International Journal of Numerical Methods for Heat & Fluid Flow, Volume 29, Issue 1, Pages 2-20

Impact Factor: 2.871 | **Quartile:** 1 | **Citations:** 108

DOI: https://www.emeraldinsight.com/doi/full/10.1108/HFF-08-2017-0301

Simultaneous effects of melting heat and internal heat generation in stagnation point flow of Jeffrey fluid towards a nonlinear stretching surface with variable thickness 2018

Tasawar Hayat Rai Sajjad Saif Rahmat Ellahi Taseer Muhammad Ahmed Alsaedi

International Journal of Thermal Sciences, Volume 132, Pages 344-354

Impact Factor: 3.488 | **Quartile:** 1 | **Citations:** 58

DOI: 10.1016/j.ijthermalsci.2018.05.047

Numerical study for Darcy-Forchheimer flow due to a curved stretching surface with Cattaneo-Christov heat flux and homogeneousheterogeneous reactions 2017

Tasawar Hayat Rai Sajjad Saif Rahmat Ellahi Taseer Muhammad Bashir Ahmad

Results in Physics, Volume 7, Pages 2886-2892

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 98

DOI: 10.1016/j.rinp.2017.07.068

Stagnation-point flow of second grade nanofluid towards a nonlinear stretching surface with variable thickness. 2017

Rai Sajjad Saif Tasawar Hayat Rahmat Ellahi Taseer Muhammad Ahmed Alsaedi

Results in Physics, Volume 7, Pages 2821-2830

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 48

DOI: 10.1016/j.rinp.2017.07.062

Homogeneous-heterogeneous reactions in MHD flow of micropolar fluid by a curved stretching surface 2017

Tasawar Hayat Rai Sajjad Saif Rahmat Ellahi Ahmed Alsaedi Taseer Muhammad

Journal of Molecular Liquids, Volume 240, Pages 209-220

Impact Factor: 4.513 | **Quartile:** 1 | **Citations:** 101

DOI: 10.1016/j.molliq.2017.05.054

Numerical study of boundary-layer flow due to a nonlinear curved stretching sheet with convective heat and mass conditions 2017

Tasawar Hayat Rai Sajjad Saif Rahmat Ellahi Taseer Muhammad Bashir Ahmad

Results in Physics, Volume 7, Pages 2601-2606

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 80

DOI: 10.1016/j.rinp.2017.07.023

On MHD nonlinear stretching flow of Powell-Eyring nanomaterial 2017

Tasawar Hayat Rai Sajjad Saif Taseer Muhammad Ahmed Alsaedi Rahmat Ellahi

Results in Physics, Volume 7, Pages 535-543

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 88

DOI: 10.1016/j.rinp.2016.12.039

On squeezed flow of couple stress nanofluid between two parallel plates. 2017

Tasawar Hayat Rai Sajjad Saif Ahmed Alsaedi Taseer Muhammad Rahmat Ellahi

Results in Physics, Volume 7, Pages 553-561

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 118

DOI: 10.1016/j.rinp.2016.12.038

Radiation effects on MHD flow of Maxwell fluid in a channel with porous medium 2011

Tasawar Hayat Rai Sajjad Saif Zaheer Abbas Muhammad Sajid Awatif A. Hendi

International Journal of Heat and Mass transfer, Volume 54, Issue 4, Pages 854-862

Impact Factor: 2.407 | **Quartile:** 1 | **Citations:** 111

DOI: 10.1016/j.ijheatmasstransfer.2010.09.069

Series solution for MHD channel flow of a Jeffery fluid 2010

Tasawar Hayat Rai Sajjad Saif Saleem Asghar

Communications in Nonlinear Science and Numerical Simulation, Volume 15, Issue 9, Pages 2400-2406

Impact Factor: 2.698 | **Quartile:** 1 | **Citations:** 58
DOI: 10.1016/j.cnsns.2009.09.033

Editorial Activities

Results in Engineering 2024
Reviewed Papers for Journals
Impact Factor: 6.0

International Communications in Heat and Mass Transfer 2024
Reviewed Papers for Journals
Impact Factor: 5.9

International Journal of Modern Physics B 2023
Reviewed Papers for Journals
Impact Factor: 1.404

International Journal of Modern Physics B 2023
Reviewed Papers for Journals
Impact Factor: 1.404

2021
Reviewed Papers for Journals
Impact Factor: 5.683

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Impact Factor: 5.683

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