

IMRAN SIDDIQUE

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H-Index #: 40 (Google Scholar Source)

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Objective:

To pursue a challenging career in the field of research with an organization that provides significant professional and technical growth. And achieve the heights of my profession by making the best use of my natural skills while working in a competitive environment.

Academic Background:

- **Ph. D*. Applied Mathematics** (December, 2003 – April, 2008)
Abdus Salam School of Mathematical Sciences, GC. University, Lahore, Pakistan
- **M. Sc. Mathematics** (September, 2001 – August, 2003)
Department of Mathematics, University of the Punjab, Lahore, Pakistan
- **B. Sc. Math A; Math B; Physics** (September, 1999 – April, 2001)
University of the Punjab, Lahore, Pakistan

***Title of Thesis:** Kinetic Equations in the Theory of Normal Quantum Fermi Liquid

(Supervisor: Prof. Dr Alexander Kondratyev

Department of Physics, Herzen State Pedagogical University, 48 Moika Embankment, St. Petersburg, Russia. **Email:** kondrat98926@yahoo.com)

Distinctions:

- Top 2% Scientist in the Mendeley data research by Stanford University's for year 2025.
- Top 2% Scientist in the Mendeley data research by Stanford University's for year 2024.
- Top 2% Scientist in the Mendeley data research by Stanford University's for year 2023.
- Top 2% Scientist in the Mendeley data research by Stanford University's for year 2022.
- **Research Fellowship**, Al-Ayen research center, Thi-Qar, Iraq, Feb 01, 2024 – Feb 01, 2025.

- Won the *Research excellence Award for highest number of Scopus-Listed Publications in 2021* from the University of Management and Technology, Lahore.
- Won the *100+ Scopus-Listed Publications in 2021* from the University of Management and Technology, Lahore.
- Won the *Award for Pre PhD Quality research* from the Abdus Salam School of Mathematical Sciences GC University, Lahore, 2008.
- I am '*HEC Approved Supervisor*' for PhD-level students funded under various HEC in-country Scholarship Programs.
- Won the *special prize* in the category of young speaker in the Second world conference on 21st century Mathematics 2005 held in School of Mathematical Sciences GC University, Lahore on March 04-06, 2005.
- Member of **Pakistan Mathematical Society**.
- Member of **Punjab Mathematical Society**.
- *Managing editor* of an ISI indexing Journal "Science International".
- *Reviewer/Referee* of various national and international journals.

Administrative Experience:

- **Director**, Advanced Studies & Research in University of Sargodha (UOS).
- Member of Academic Council in UOS.
- Member of Board of Faculty (BOF) in UOS.
- Member of Board of Studies (BOS) in UOS
- Member of Board of Studies (BOS), Department of Mathematics, Chenab University, Gujrat.
- Member of the departmental academic review committee.
- Member of Academic Council in UMT.
- Member of Board of Faculty (BOF) in UMT.
- Member of the **proctorial board** of campus committee.
- Ex-Member of **scientific research** committee in the department of Mathematics, Jazan University, Jazan, Kingdom of Saudi Arabia.
- Coordinator of Scientific and Research Committee.
- Coordinator of MS Program.

Research Interests:

- Fractional Calculus
- Fractional Fluid Mechanics
- Fluid Flow with Nanoparticles
- Heat and Mass Transfer
- Computational Fluid Dynamics
- Newtonian and Non-Newtonian Fluids Dynamics
- Fuzzy Fluid Dynamics
- Fuzzy Fractional Differential Equations
- Artificial Neural Network
- Mathematical Biology

- Bio-Fluid Dynamics
- Integral Transforms
- Series and Numerical solutions of Nonlinear Problems
- Soliton Theory
- Lubrication Theory

Professional Experience:

I have ability to teach mathematics at university level. I have taken the courses from renowned Professors during my Ph.D. course work. From these courses I learned different techniques to enhance the problem-solving abilities of students.

Brief career history is as follows:

Professor:

- Department of Mathematics, University of Sargodha, Sargodha, Pakistan
February, 2023 — till date.

Professor:

- Department of Mathematics, University of Management & Technology, Lahore Campus, Pakistan
December, 2020 — February, 2023.

Associate Professor:

- Department of Mathematics, University of Management & Technology, Lahore Campus, Pakistan
October, 2015 — December, 2020.

Assistant Professor:

- Department of Mathematics, Faculty of Science, Jazan University, Jazan, Kingdom of Saudi Arabia.
June, 2012 — August, 2015

Assistant Professor:

- Department of Mathematics, COMSATS Institute of Information Technology, Lahore, Pakistan
January, 2008 — August, 2013.

Subjects Taught

Course taught at PhD Level:

- | | |
|----------------------------------|--|
| 1. Non-Newtonian fluid mechanics | 2. Advanced Topics in Fluid Dynamics-I |
| 3. Advance Numerical Analysis | 4. Fuzzy Fractional Differential Equations |

Course taught at Post Graduate Level:

- | | |
|----------------------------------|---------------------------------|
| 1. Non-Newtonian fluid mechanics | 2. MHD and Porous Media |
| 3. Viscous fluid I & II | 4. Advance Numerical Analysis-I |
| 5. Algebra | 6. Advanced Fluid Dynamics |
| 7. Fractional Calculus | 8. Fractional Fluid Dynamics |

Course taught at undergraduate Level:

1. Calculus I, II, III
2. Linear Algebra
3. Multivariable Calculus
4. Business mathematics
5. Mathematical statistics
6. Discrete Mathematics
7. Ordinary differential equations
8. Partial differential equations
9. Calculus and Analytical Geometry
10. Mathematics for architecture
11. Advanced calculus
12. Special functions
13. Mathematical Physics
14. Classical Mechanics
17. Topology
15. Statics
16. Vector and Tensor analysis
17. Algebra I, II
18. Numerical Analysis

Research Supervision:

PhD

1. **Muhammad Irfan (2022)- (2026)** “Electrical Double Layer Effects on Thermal Transport of Nanofluids in Different Geometries” (Completed)
2. **Muhammad Nadeem (2017)-(2021)** “Applications of fuzzy differential equations in differential type fluids” (Completed)
3. **Kashif Sadiq (2016)-(2022)** “Analysis of convective viscous and rate type nanofluids in a channel” (Completed)
4. **Irfan Saif Ud Din (2021)** “Computational Analysis of Thermal Energy in the Flow of Nanofluids using Electroosmotic effects” (in progress)
5. **Imtiaz Tariq (2021)** “Transforming Decision Analysis with Advanced Hybrid Fuzzy Hypersoft Framework” (in progress)
6. **Nawazish Ali (2022)** “Decision Support System with Machine Learning and T-Spherical Fuzzy Z-numbers” (in progress)
7. **Mohsin Ali (2024)** “Artificial Intelligence Optimization of Thermal Performance in Non-Newtonian Nanofluids over Stretching Surface” (in progress)

MS/M. Phil (Completed)

1. **Laiba Ghafoor-(2025)** “Analysis of Hall Current Effects on Unsteady Jeffrey Fluid Flow with Fractional Mass and Thermal Transport in Porous Media”
2. **Aina Mumtaz-(2025)** “Lie Group Transformation and RSM Optimization of Triple-Diffusive MHD Non-Newtonian Fluid Flows over an Extensible Inclined Surface”
3. **Tayyba Hussain-(2025)** “Explicit Traveling Wave Solutions to the Time-Fractional Coupled Boussinesq-Whitham-Broer-Kaup Equations via Two Reliable Methods”
4. **Rubina Adrees-(2023)** “Heat Absorption effect on MHD free Convective flow of Fractionalized Jeffrey Fluid Model”.
5. **Usama Habib-(2022)** “Bio-Convection and variable viscosity effects for unsteady hybrid nano-fluid flow across a spinning body”.
6. **Sania Sattar-(2022)** “Source/Sink effect on MHD free convection flow of fractional Casson nanofluid under inclined magnetic field”

7. **Arooj Akhtar-(2022)** “Impact of Bioconvection on Williamson MHD fluid flow through extending porous surface”.
8. **Aneeza Faheem-(2022)** “Immiscible Generalized Second-Grade Fluids in a Rectangular Channel”.
9. **Atika Farooq-(2021)** “Forward Roll Coating of a Viscoplastic Material onto a Porous Web”.
10. **Kausar Shehzadi-(2021)** “Exact Traveling Wave Solutions Possessing Beta Derivative of the Fractional Generalized Reaction Duffing Model and the Density Dependent Fractional Diffusion Reaction Equation”.
11. **Saima Afzal-(2021)** “Significance of thermo-radiation and heat source on time-dependent micropolar based Carreau nanofluid across an extending sheet with double diffusion”.
12. **Ifran Saif ud Din-(2021)** “Computational Investigation for Bioconvection and Slip Effects on Carreau Nanofluid and Tangent hyperbolic Nanofluid over a Wedge”.
13. **Aimen Akram-(2021)** “Coating of Pseudoplastic Fluid in Reverse Roll-Coating: A Theoretical Analysis”.
14. **Sehrish Ayaz-(2021)** “Impact of Dufour effect on MHD convective flow of fractionalized second grade fluid with Newtonian heating”.
15. **Muhammad Sajid-(2021)** “Analysis of MHD Third Grade Fluid flows through an Inclined Channel with Ohmic heating”.
16. **Khush Bukht Mehdi-(2021)** “Exact Traveling Wave Solutions of the M-Fractional Partial Differential Equations”.
17. **Mubeen Zafrullah-(2021)** “Analysis of unsteady flow of a Burgers’ fluid with Caputo time fractional derivatives”.
18. **Muhammad Shakar-(2021)** “Application of Sumudu Transformation to Unsteady Differential type Fluids Flow”.
19. **Khushbakht Naseer-(2021)** “Radiative Heat and Mass Transfer Analysis in Mainstream Velocity which Oscillates Without Reversing”.
20. **Rooman-(2021)** “Approximate solutions of the flow models for non-Newtonian fluids using hybrid techniques”.
21. **Sonia Yaqoob-(2020)** “Analysis of natural convection Bionanofluids in a vertical channel with generalized boundary conditions”.
22. **Tanzila Aslam-(2020)** “Mixed convection flows of non-Newtonian fluid subject to Newtonian heating under the effect of fractional Fourier’s and Fick’s laws”.
23. **Zia-ur-Rehman-(2020)** “Exact solutions of MHD Stokes’ problems for an incompressible Couple stress fluid”.
24. **Syeda Mahwish Bukhari-(2019)** “Semi analytical solutions of convective flows of second grade fluid with the effect of generalized Fourier’s and Fick’s laws”.
25. **Israr Ahmed-(2016)** “Flow of a third-grade fluid between two parallel plates in a porous medium”.
26. **Atiq-ur-Rehman-(2016)** “Exact solutions of Third and Forth order Obstacle Problems using Reduction-to-First order Method”.
27. **Mohsin Kamran-(2012)** “Unsteady Magnetohydrodynamic Couette and Poiseuille flows of a third-grade fluid”.
28. **Muhammad Bilal Riaz-(2012)** “Applications of Sumudu Transform to unsteady flow of viscous and non-viscous fluids”.

29. **Zamra Sajid-(2010)** “Exact solutions for the unsteady flow of non-Newtonian fluids of rate type”.
30. **Fiza Batool-(2010)** “Analytical solutions of nonlinear evolution equations in the field of mathematical physics”.
31. **Sehrish Iftikhar-(2010)** “Exact solutions for some unsteady flows of Newtonian fluids”.

Research Projects:

- Unsteady Flow of several Non-Newtonian Fluids with fractional derivative through circular cylinder. The deanship of the scientific research of Jazan University, Saudi Arabia, for the financial support of this research, through the project number 36/6/2105. (Completed)
- Growth of Entire Functions of Several Complex Variables in Banach Spaces and Hyper Geometric Functions, Integral Operators, Complex Manifolds. Deanship of Scientific Research at King Khalid University Saudi Arabia for funding this work through large group Research Project under grant number RGP 2/554/44. (Completed)

Selected Journal Research Papers (SCIE/ESCI/SCOPUS):

- 1 Rana Muhammad Zulqarnain, Radko Mesiar, Witold Pedrycz, Imtiaz Tariq, **Imran Siddique**, Sohaib Abdal, Tapan Senapati, ‘A Data-Driven Technique for Risk Allocation in the Micromobility Sector Using Q-Rung Orthopair Fuzzy Rough Numbers, “*Applied Soft Computing*”, 193, (2026), 114830. <https://doi.org/10.1016/j.asoc.2026.114830> [IF=6.600 (SCIE)]
- 2 Tehreem Ilyas, Shamaila Samreen, **Imran Siddique**, Samia Abdul Rauf, Dilsora Abduvalieva, Hijaz Ahmad, ‘Hybrid Nanofluid heat transfer in flower-shaped cavity containing ZrO₂ and ZnO Nanoparticles, “*Proc IMechE Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*”, (2026), 1-23. <https://doi.org/10.1177/23977914261426240> [IF = 5.000 (ESCI)]
- 3 Laiba Ghafoor, **Imran Siddique**, Muhammad Nadeem, Waleed Mohammed Abdelfattah, Barno Abdullaeva, Admilson T. Franco, Zaher Mundher Yaseen, ‘Modeling and Prediction of Fractional-Order MHD Hybrid Nanofluid Flow Using CPCF Derivatives and LMS-Based Neural Networks, “*Results in Engineering*”, 29, (2026), 109101. <https://doi.org/10.1016/j.rineng.2026.109101> [IF=7.900 (ESCI)]
- 4 Muhammad Nadeem, Admilson T. Franco, **Imran Siddique**, Rizwan Khan, Habib Kraiem, Dilsora Abduvalieva, Zaher Mundher Yaseen, ‘Entropy generation analysis on viscoelastic hybrid nanofluid flow between coaxial pipes with Darcy-Furchhiemer impact: an application of drilling fluid, “*Journal of the Brazilian Society of Mechanical Sciences and Engineering*”, 48, (2026), 201. <https://doi.org/10.1007/s40430-025-06174-9> [IF=2.100 (SCIE)]
- 5 Muhammad Umar, Muhammad Zeeshan, Shazia Rafiq, **Imran Siddique**, Bushra Shakoor, Abdullatif Saleh Ghallab, ‘Numerical simulations of blood flow in a stenosed artery using a multi-criteria decision-making Algorithm, “*Scientific Reports*”, 16, (2026), 4527. <https://doi.org/10.1038/s41598-025-31493-1> [IF=3.900 (SCIE)]

- 6 Muhammad Nadeem, Admilson T. Franco, **Imran Siddique**, Mohamed Abubakar Fiidow, Yamid J. Garcia-Blanco, Bushra Shakoor, ‘Activation Energy Effects on Torsional Third-Grade Hybrid Nanofluid Flow in Concentric Porous Pipes: A Sensitivity Analysis, “*Results in Engineering*”, 29, (2026), 108778. <https://doi.org/10.1016/j.rineng.2025.108778> [IF=7.900 (ESCI)]
- 7 Dean Chou, Sajawal Abbas Baloch, **Imran Siddique**, Zaher Mundher Yaseen, Barno Abdullaeva, ‘Novel Soliton Solutions and Wave Interactions for the Nonlinear Fisher Equation using Hirota’s Method: Applications in Plasma, Optics, and Material Sciences, “*Contemporary Mathematics*”, 7(1), (2026), 49–99. <https://doi.org/10.37256/cm.7120268468> [IF = 2.500 (ESCI)]
- 8 Qadeer Raza, Xiaodong Wang, M. Zubair Akbar Qureshi, **Imran Siddique**, Shehla Siddique, Bagh Ali, Hijaz Ahmad, Taha Radwan, ‘Significance of Fractal Interfacial Layer and Nanoparticle’s Radius on the Dynamics of Nanofluids Flow via Channel of Porous Walls, “*Fractals*”, (2026). <https://doi.org/10.1142/S0218348X26400037> [IF = 3.300 (SCIE)]
- 9 Irfan Saif Ud Din, **Imran Siddique**, Zohaib Zahid, Muhammad Nadeem, S. Islam, ‘ANN-based analysis of thin film Maxwell fluid dynamics with electro-osmotic and nonlinear thermal effects, “*Alexandria Engineering Journal*”, 127, (2025), 392–410. <https://doi.org/10.1016/j.aej.2025.04.084> [IF = 6.200 (SCIE)]
- 10 **Imran Siddique**, Muhammad Nadeem, Bushra Shakoor, Habib Kraiem, Abdullatif Saleh Ghallab, Zaher Mundher Yaseen & Barno Abdullaeva, ‘ANN-based analysis of MHD third-grade hybrid nanofluid flow over a thin needle with fuzzy volume fraction under nonlinear radiation and heat generation, “*Scientific Reports*”, 15, (2025), 45030. <https://doi.org/10.1038/s41598-025-29013-2> [IF = 3.900 (SCIE)]
- 11 **Imran Siddique**, Laiba Ghafoor, Taha Radwan, Zaher Munder Yaseen, Barno Abdullaeva, ‘Analysis of Hall Current Effects on Unsteady Jeffrey Fluid Flow with Fractional Mass and Thermal Transport in Porous Medium, “*Fractals*”, 34(2), (2025), 2540215. <https://doi.org/10.1142/S0218348X25402157> [IF = 3.300 (SCIE)]
- 12 Ulviye Demirbilek, Sajawal Abbas Baloch, **Imran Siddique**, Hasan Bulut, Taha Radwan, ‘Exploring Lump Solutions, Bifurcation, Sensitivity, and Chaotic Dynamics in the Extended KP-Boussinesq Equation, “*Journal of Nonlinear Mathematical Physics*”, 32, (2025), 49. <https://doi.org/10.1007/s44198-025-00304-6> [IF = 1.600 (SCIE)]
- 13 Shaukat Iqbal, Javaid Ali, **Imran Siddique**, Abdu Qaid Alameri, Hijaz Ahmad, ‘Finite element analysis of thin film flows in non-Newtonian third grade Sisko fluid for lifting and drainage applications, “*Advances in Mechanical Engineering*”, 17(8), (2025), 1-17. <https://doi.org/10.1177/16878132251364688> [IF = 2.000 (SCIE)]
- 14 Umar Ali, Junxiang Li, Usman Zulfiqar, Kamran B. A. Salam, Rifaqat Ali, **Imran Siddique**, Ihsanullah Saqib, Rana Muhammad Zulqarnain, ‘Decision support model for blockchain adoption using EDAS technique in the complex q-rung orthopair fuzzy structure, “*Scientific Reports*”, 15, (2025), 42833. <https://doi.org/10.1038/s41598-025-05971-5> [IF = 3.900 (SCIE)]

- 15 Sajawal Abbas Baloch, Khush Bukht Mehdi, Rifaqat Ali, **Imran Siddique**, Dilsora Abduvalieva, ‘Exploring solitary wave solutions in the Ivancevic option pricing model using a ϕ 6-model fractional derivative technique, “*Journal of Nonlinear, Complex and Data Science Advances*”, (2025), 1-23. <https://doi.org/10.1515/jncds-2025-0006> [IF = 1.500 (SCIE)]
- 16 Umar Ali, Junxiang Li, Qin Qi, Usman Zulfiqar, Taha Radwan, **Imran Siddique**, Rana Muhammad Zulqarnain, ‘A novel decision support system for sustainable logistics management in interval-valued fermatean picture fuzzy structure, “*Scientific Reports*”, 15, (2025), 31840. <https://doi.org/10.1038/s41598-025-06699-y> 8 [IF = 3.900 (SCIE)]
- 17 Khush Bukht Mehdi, Sajawal Abbas Baloch, **Imran Siddique**, Dilsora Abduvalieva, Zaher Mundher Yaseen, Hijaz Ahmad, ‘Modulation Instability and Solitary Wave Analysis of the Ivancevic Option Pricing Model via Novel Mathematical Techniques, “*Computational Methods for Differential Equations*”, (2025), 1-26. <https://doi.org/10.22034/cmde.2025.67141.3185> [IF = 1.300 (ESCI)]
- 18 Amna Mariam, Nadeem Salamat, Sohaib Abdal, Sajjad Hussain, **Imran Siddique**, Zaher Mundher Yaseen, Hijaz Ahmad, ‘Enhancing thermal transport in industrial applications: A study on AA7072–AA7075 hybrid nanofluid over a stretching cylinder with MHD and heat source/sink effects, “*Proc IMechE Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*”, (2025), 1-15. <https://doi.org/10.1177/23977914251356729> [IF = 5.000 (ESCI)]
- 19 Rana Muhammad Zulqarnain, Hongwei Wang, Usman Zulfiqar, Rifaqat Ali, **Imran Siddique**, Abdullatif Saleh Ghallab, Hafiz Shahzad Riaz Khan Tareen, Sohaib Abdal, ‘Evaluation of food waste treatment techniques using aczel alsina based MAGDM model in the q-rung orthopair fuzzy soft structure, “*Scientific Reports*”, 15, (2025), 26072. <https://doi.org/10.1038/s41598-025-09082-z> [IF = 3.900 (ESCI)]
- 20 Amna Mariam, Nadeem Salamat, Sohaib Abdal, Sajjad Hussain, **Imran Siddique**, Zaher Mundher Yaseen, ‘Impact of Activation Energy on Hybrid Nanofluid Flow Dynamics at Stagnation Point in Porous Media: A Darcy-Forchheimer and Bio-Convective Approach, “*Proc IMechE Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*”, (2025), 1-15. <https://doi.org/10.1177/23977914251345687> [IF = 4.200 (ESCI)]
- 21 Khush Bukht Mehdi, Abd Allah A. Mousa, Sajawal Abbas Baloch, Ulviye Demirbilek, Abdullatif Ghallab, **Imran Siddique**, Rana Muhammad Zulqarnain, ‘Exploration of Soliton Dynamics and Chaos in the Landau- Ginzburg-Higgs Equation Through Extended Analytical Approaches, “*Journal of Nonlinear Mathematical Physics*”, 32, (2025), 22. <https://doi.org/10.1007/s44198-025-00272-x> [IF = 1.400 (SCIE)]
- 22 Muhammad Irfan, Ali B.M. Ali, **Imran Siddique**, Mubbashar Nazeer, Mohamed Kallel Shaimaa A.M. Abdelmohsen, Hawzhen Fateh M. Ameen, Nadia Batool, ‘Coupled effects of radiative electroosmosis and surface roughness on hybrid nanofluid transport in biomedical systems, “*Journal of Radiation Research and Applied Sciences*”, 18, (2025), 101456. <https://doi.org/10.1016/j.jrras.2025.101456> [IF = 1.700 (SCIE)]

- 23 Muhammad Afzal, Faiza Zahid, Badar E Alam, Mohammed M. M. Jaradat, **Imran Siddique**, Bagh Ali, Binjian Ma, ‘Investigating the behaviour of electro-magneto-hydrodynamic Carreau nanofluid flow with slip effects over a stretching cylinder, “*Nanotechnology Review*”, 14, (2025), 20250166. <https://doi.org/10.1515/ntrev-2025-0166> [IF = 6.100 (SCIE)]
- 24 Mubashir Qayyum, Sidra Nayab, **Imran Siddique**, Abdullatif Ghallab, ‘Analysis of time-fractional cancer-tumor immunotherapy model using modified He-Laplace algorithm, “*Scientific Reports*”, 15, (2025), 8929. <https://doi.org/10.1038/s41598-024-82170-8> [IF = 3.800 (SCIE)]
- 25 Muhammad Nadeem, **Imran Siddique**, Ibrahim Mahariq, Irfan Saif Ud Din, Zaher Mundher Yaseen, Rizwan Khan, ‘Numerical assessment of unsteady Prandtl Eyring fuzzy hybrid nanofluid over wedge with nonlinear thermal radiation effect, “*Proc IMechE Part N: J Nanomaterials, Nanoengineering and Nanosystems*”, (2025), 1-16. <https://doi.org/10.1177/23977914251322203> [IF = 4.200 (ESCI)]
- 26 Rana Muhammad Zulqarnain, **Imran Siddique**, Sameh Askar, Ahmad M Alshamrani, Dragan Pamucar, Vladimir Simic, ‘An extended TOPSIS technique based on correlation coefficient for interval-valued q-rung orthopair fuzzy hypersoft set in multi-attribute group decision-making, “*Complex & Intelligent Systems*”, 11, (2025), 262. <https://doi.org/10.1007/s40747-025-01838-4> [IF = 5.000 (SCIE)]
- 27 Aqila Shaheen, Saira Muhammad Hussain, Muhammad Awais Khan, **Imran Siddique**, ‘Exploring magneto-hydrodynamics in Sisko nano fluids: the role of cilia effects and Darcy number via homotopy perturbation method, “*Multiscale and Multidisciplinary Modeling, Experiments and Design*”, 8 (2025), 362. <https://doi.org/10.1007/s41939-025-00947-4> [IF = 2.00 (SCIE)]
- 28 Wusat Ullah, Patrícia Oliveira-Silva, Muhammad Nawaz, Rana Muhammad Zulqarnain, **Imran Siddique**, Mohammed Sallah, ‘Identification of depressing tweets using natural language processing and machine learning: Application of grey relational grades, “*Journal of Radiation Research and Applied Sciences*”, 18(1), (2025), 101299. <https://doi.org/10.1016/j.jrras.2025.101299> [IF = 1.700 (SCIE)]
- 29 Rana Muhammad Zulqarnain, Hongwei Wang, **Imran Siddique**, Rifaqat Ali, Hamza Naveed, Saalam Ali Virk, Muhammad Irfan Ahamad, ‘Thermochemical Techniques for Disposal of Municipal Solid Waste Based on the Intuitionistic Fuzzy Hypersoft Evaluation Based on the Distance from the Average Solution Technique, “*Sustainability*”, 17, (2025), 970. <https://doi.org/10.3390/su17030970> [IF = 3.300 (SCIE)]
- 30 Muhammad Nadeem, Admilson T. Franco, **Imran Siddique**, Yamid J. Garcia-Blanco, Luis H Quitian-Ardil, Rizwan Khan, ‘Role of Electroosmotic and Darcy-Forchheimer Law on MHD Williamson Hybrid Nanofluid Flow over a Moving Thin Needle, “*Chaos, Solitons and Fractals*”, 192, (2025), 116021. <https://doi.org/10.1016/j.chaos.2025.116021> [IF = 5.300 (SCIE)]
- 31 Khush Bukht Mehdi, **Imran Siddique**, Waqas Ali Faridi, Rifaqat Ali, Muhammad nadeem, Rana Muhammad Zulqarnain, ‘Exact solutions and sensitivity analysis for fractional NLSE in Kerr Media using ϕ^6 -model expansion technique, “*Physica Scripta*”, (2025).

<https://doi.org/10.1088/1402-4896/ada502>

[IF = 2.600 (SCIE)]

- 32 Feng Pan, Bagh Ali, **Imran Siddique**, Rifaqat Ali, Shan Ali Khan, Ahmed Kadhim Husseing, Huizhu Yang, ‘A Finite Element Simulation Study for Exploring the Impact of Nanolayer Nanoparticle Diameter, Coriolis Force, and Quadratic Convective in Water-Based Fluid via Microgravity Environment, “*Chaos, Solitons and Fractals*”, 191, (2025), 115908.
<https://doi.org/10.1016/j.chaos.2024.115908> [IF = 5.300 (SCIE)]
- 33 **Imran Siddique**, Rana Muhammad Muhammad Zulqarnain, M. Ali Akbar, Sabila Ali, ‘Lump Collision Dynamics in the Generalized (3+1)-Dimensional Variable Coefficient B-Type Kadomtsev-Petviashvili Equation, “*Physica Scripta*”, 100, (2025) 015231.
<https://doi.org/10.1088/1402-4896/ad986c> [IF = 2.600 (SCIE)]
- 34 Syed Ali Haider Shah, **Imran Siddique**, Ilyas Khan, Ashit Kumar Dutta, Mujeeb Ahmed Shaikh, Aten Aldawood, ‘On Some Applications of Generalized Meijer G-Functions, “*European Journal of Pure and Applied Mathematics*”, 18(4), (2025), 1-12.
<https://doi.org/10.29020/nybg.ejpam.v18i4.6194> [IF = 1.000 (ESCI)]
- 35 Hameed Ashraf, Tariq Ali, Talha Anwar, **Imran Siddique**, A. M. Siddiqui, ‘Analysis of shear rate-dependent viscoelastic mucociliary flow in mucus hypersecretion with thermal and concentration aspects, “*International Journal of Thermofluids*”, 30, (2025) 101431.
<https://doi.org/10.1016/j.ijft.2025.101431> [SCOPUS Indexed]
- 36 Sohaib Abdala, **Imran Siddique**, Nadeem Salamat, Irfan Saif Ud Din, ‘Nano-bio-film flow of Williamson fluid due to a non-linearly extending/contracting surface with non-uniform physical properties, “*Waves in Random and Complex Media*”, 35(7), (2025), 13928–13946.
<https://doi.org/10.1080/17455030.2022.2146233> [IF = 4.051 (SCIE)]
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- 325 **Imran Siddique**, ‘Exact solution of some Helical flows of Newtonian Fluids’, *Proceeding of World Academy of Sciences, Engineering and Technology, Heidelberg Germany*. 33, September 2008, pp. 664—667. doi=10.1.1.193.4337&rep=rep1&type=pdf (HEC Approved)
- 326 A. S. Kondratyev, **I. Siddique**, ‘Kinetic equations in the theory of Normal Fermi liquid’, “*Low Temperature Physics*”, 34(2), (2008) 137—141. <https://doi.org/10.1063/1.2834259> [IF = 0.78 (SCIE)]
- 327 M. Arshad, A. S. Kondratyev, **I. Siddique**, ‘Spectral Function and Kinetic equation for a Normal Fermi liquid’, “*Physical Review B*”, 76, (2007), 054306.
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- 328 M. Arshad, A. S. Kondratyev, **I. Siddique**, ‘Kinetic equations in the Landau theory of Normal Fermi liquid’, *International collection of scientific articles, The library of Russian Academy of sciences, St, Petersburg. RUSSI*. 6 (2007) 3-8. <https://doi.org/10.1063/1.2834259> (HEC Approved)

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- 330 Saalam Ali, Hamza Naveed, **Imran Siddique**, Rana Muhammad Zulqarnain, ‘Extension of Interaction Geometric Aggregation Operator for Material Selection using Interval-Valued Intuitionistic Fuzzy Hypersoft Set’, “*Journal of Operational Intelligence*”, 2(1), (2024) 14-35. <https://doi.org/10.31181/jopi21202410> [ESCI]
- 331 Khush Bukht Mehdi, Zubia Mehdi, Shamaila Samreen, **Imran Siddique**, Adel A. Elmandouh, Mamdouh E. Elbrolosy, M. S. Osman, ‘Novel exact traveling wave solutions of the space-time fractional Sharma Tasso-Olver equation via three reliable methods’, “*Partial Differential Equations in Applied Mathematics*”, 11, (2024) 100784. <https://doi.org/10.1016/j.padiff.2024.100784> [ESCI]
- 332 Iqra Javed, Shaukat Iqbal, Javaid Ali, **Imran Siddique**, H. M. Younas, ‘Unveiling the intricacies: Analytical insights into time and space fractional order inviscid burger’s equations using adomian decomposition method’, “*Partial Differential Equations in Applied Mathematics*”, 11, (2024) 100817. <https://doi.org/10.1016/j.padiff.2024.100817> [ESCI]
- 333 H. M. Younas, Kousar Yousaf, **Imran Siddique**, Shaukat Iqbal, ‘Fractal-View and Convergence of Fractional Order Cauchy Reaction-Diffusion Equations Using Semi-Analytical Technique’, “*Partial Differential Equations in Applied Mathematics*”, (2024) 100974. <https://doi.org/10.1016/j.padiff.2024.100974> [ESCI]
- 334 Mona Gharib, **Imran Siddique**, Miin Shen Yang, ‘Neutrosophic Algebraic Structures for Precise Uncertainty Quantification in Outcome-Based Education Systems: A Rigorous Case Study Analysis’, “*Neutrosophic Systems with Applications*”, 25(10), (2025) 930-947. <https://doi.org/10.63689/2993-7159.1301> [ESCI]
- 335 Shamaila Samreen, Humaal Shafiq, **Imran Siddique**, Jaweria Aslam, Hijaz Ahmad, ‘Designing by constructing Cubic Trigonometric Nu B-Spline with Arabic Font’, “*Punjab University Journal of Mathematics*”, 57(6), (2025) 632-651. [https://doi.org/10.52280/pujm.2025.57\(06\)02](https://doi.org/10.52280/pujm.2025.57(06)02) [ESCI]
- 336 S. Iqbal, **I. Siddique**, F. Jarad, N. A. Shah, ‘Solution to telegraph equation in the frame of Caputo-Fabrizio fractional derivative’, ” **sent for publication.**
- 337 **Imran Siddique**, ‘Analytic Solution for the Drainage of Brikman type Fluid Film Down a Vertical Belt’, **sent for publication.**
- 338 **Imran Siddique**, ‘Thin film flow of a third-grade fluid over an inclined plane with slip boundary conditions’, **sent for publication.**

Books:

- *Kinetic Equations in the Theory of Normal Quantum Fermi Liquid*, LAMBERT ACADEMIC PUBLISHERS (LAP), Germany with ISBN #: 978-3-8383-5897-0.

Technical presentations at conferences/Seminars/Symposiums:

- 1 **Invited Keynote speaker talk** in 20th Conference on Recent Advances in Mathematical Methods, Models, & Applications held in Lahore School of Economics, Lahore, Pakistan, April 19–20, 2025.
- 2 **Keynote speaker talk** in Two Days 3rd International Conference on Recent Developments in Pure and Applied Mathematics held in GCU Faisalabad and GCWU Faisalabad, Pakistan, December 18-19, 2024.
- 3 **Invited Keynote speaker talk** in 1st International Conference on Sciences for Future Trends held in University of Lahore, Sargodha Campus, Pakistan, December 7-8, 2024.
- 4 **Invited Keynote speaker talk** in the One-day Symposium on Pure and Applied Mathematics, held in Department of Mathematics, Education University, Vehari Campus, October 31, 2024.
- 5 **Invited speaker talk** in bimonthly seminar series held in Department of Mathematics, Riphah International University Islamabad, Lahore Campus, October 27, 2024.
- 6 **Invited Keynote speaker talk** in 1st International Conference on Applied Sciences and Technology held in Baba Guru Nanak University, Nankana Sahib, Pakistan, October 24-25, 2024.
- 7 **Invited speaker talk** in 4th Summer School “New Trends in Mathematical Sciences”, held in University of Sawat, Shangla Campus, August 05-09, 2024.
- 8 **Invited speaker talk** in online Workshop on “Recent Development of Mathematical Sciences on Biological and Dynamical Systems with Fuzzy and Fractional Environments”, organized by the Department of Mathematics, Mahadevananda Mahavidyalaya Monirampore, Barrackpore, North 24 Parganas, **India**, June 19-29, 2024.
- 9 **Invited speaker talk** in Two Days International Conference on Recent trends in Mathematics, held in ASSMS GC University, Lahore, June 01-02, 2024.
- 10 **Keynote speaker talk** in the 3rd National Conference on Recent Advances in Pure and Applied Mathematics, held in Department of Mathematics and Statistics, Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah, Sindh - Pakistan, January 30-31, 2024.
- 11 **Invited speaker talk** in 2nd International Conference on Recent Advances in Mathematics, held in University of Education, Lahore, December 04-05, 2023.
- 12 **Keynote speaker talk** in the One-day Seminar: Coating of a Pseudoplastic Fluid in Reverse Roll Coating: A Theoretical Analysis, held in Department of Mathematics, University of Lahore, Sargodha Campus, October 02, 2023.
- 13 **Invited speaker talk** in 3rd Summer School “New Trends in Mathematical Sciences”, held in University of Shangla, July 26-30, 2023.
- 14 **Invited speaker talk** in Workshop on Research data Management and Applications of Semi-Analytical and Numerical Methods, Government College Women University, Faisalabad, November 29, 2022.
- 15 **Invited speaker talk** in Two Days International Conference on Mathematical Modeling and Scientific Computing for Industrial Research, ASSMS GC University, Lahore, November 07-08, 2022.

- 16 **Keynote speaker talk** in the One day Symposium on Pure and Applied Mathematics, held in Department of Mathematics, Education University, Vehari Campus, February 11, 2022.
- 17 **Keynote speaker talk** in the One day Symposium on Pure and Applied Mathematics, held in Department of Mathematics, Education University, Vehari Campus, February 02, 2020.
- 18 **Invited speaker talk** 5th International Conference on Pure and Applied Mathematics held in Department of Mathematics, University of Sargodha, February 24-25, 2020.
- 19 **Keynote speaker talk** in the One day Symposium on Pure and Applied Mathematics, held in Department of Mathematics, Education University, Vehari Campus, April 02, 2019.
- 20 **Invited speaker talk** in 1st UMT national Symposium on Fluid Dynamics, held in Department of Mathematics, University of Management and Technology Lahore, March 15, 2019.
- 21 2nd International Conference on Pure and Applied Mathematics held in Department of Mathematics, University of Sargodha, November 26-27, 2016.
- 22 11th Symposium on “Computational Complexities, Innovations and Solutions” CIIT, Abbottabad on May 9-10, 2016.
- 23 **Keynote speaker talk** in the 4th International Conference on Business Management held in Department of Mathematics, IBA Sukkar on February 26-27, 2014.
- 24 **Invited speaker talk** in department of Mathematics, Jazan University, Jizan, KSA, February 12, 2013.
- 25 7th Symposium on Computational Complexities, Innovations & Solutions 2012, CIIT, Abbottabad, May 07-08, 2012.
- 26 6th Symposium on Computational Complexities, Innovations & Solutions 2011, CIIT, Abbottabad, May 09-10, 2011.
- 27 5th World Conference on 21st Century Mathematics, ASSMS, GC University, Lahore, February 9-13, 2011.
- 28 35th International Naghiagali Summer College on Physics and Contemporary Needs, Nathiagali, June 28- July 4, 2010. Organized by: National Center for Physics.
- 29 First Science Conference, CIIT, Abbottabad, July 28-29, 2009.
- 30 **Keynote speaker talk** in the 4th International Conference on Mathematical Models and Methods in Fluid Mechanics held in Department of Mathematics, CIIT, Islamabad, July 07-09, 2008.
- 31 3rd Symposium on Computational Complexities Innovations and Solutions, CIIT, Abbottabad, May 12-13, 2008.
- 32 2nd LUMS International Conference on Mathematics, LUMS, Lahore, March 09-12, 2008.
- 33 *MATHEMATICS DAY*, one day seminar on mathematics and its applications CIIT, Lahore, March 08, 2008.
- 34 1st Mathematics Conference at CASPAM, B.Z.U, Multan, July 27-28, 2007.
- 35 3rd International Conference on 21st Century Mathematics, ASSMS, Lahore, March 05 – 07, 2007.
- 36 1st *Problem of Stokes’ for Newtonian Fluid*, CIIT, Lahore, April 12, 2008.
- 37 2nd *Problem of Stokes for non-Newtonian Fluid*, CIIT, Lahore, May 19, 2008.
- 38 *Some exact solutions of helical flows for Newtonian Fluids*, CIIT, Lahore, September 13, 2008.
- 39 *Energetic Balance for the flow of 2nd Grade fluid due to a plate subject to a Shear Stress*, ASSMS, December 05, 2007.
- 40 *A note on an Unsteady Flow of an Oldroyd-B fluid*, ASSMS, October 24, 2007.

41 *The Phenomenological theory of Landau-Silin Normal Fermi Liquid*, ASSMS, February 9, 2007.

42 *Spectral Function and the Kinetic equation in the Landau theory of Normal Fermi Liquid*, ASSMS, January 25, 2007.

Conferences, School and Training attends/Organized:

- **Organized as a Focal Person:** 7th International Conference on Pure and Applied Mathematics, University of Sargodha, Sargodha. April 17-18, 2025.
- **Organized as a Focal Person:** 4th National Conference on Pure and Applied Mathematics, University of Sargodha, Sargodha. April 29-30, 2024.
- **Organized as a Focal Person:** 6th International Conference on Pure and Applied Mathematics, University of Sargodha, Sargodha. December 06-07, 2023.
- One day Seminar on Environmental Impact of Climate Change and Extreme Weather Events. Organized by Department of Mathematics, University of Sargodha, Sargodha. October 03, 2023.
- **Chief Organizer:** One Day Virtual Seminar on Pure and Applied Mathematics, University of Education, Vehari Campus. April 21, 2022.
- International Training Workshop on Computational Special Functions and their Applications organized by MathTec Thinking Foundation, India. April 05-07, 2022.
- One Day Training Workshop on Cross-Discipline Platforms: Scopus, Science Direct and Mendeley organized by MathTec Thinking Foundation, India. March 11, 2022.
- 5 Days International FDP on Research Methods in Economics using Stata Software organized by College of Business and Economics, Ethiopia. March 02-06, 2022.
- Three days webinar on Intelligent Optimization Techniques and their real-life applications organized by Punjab University, Patiala, India. Feb 25-27, 2022.
- 6th UMT International Conference on Pure and Applied Mathematics UICPAM. February 21 – 23, 2020.
- One Day International Seminar on Mathematical Sciences, Virtual University of Pakistan. May 02, 2019.
- 5th UMT International Conference on Pure and Applied Mathematics UICPAM. March 29 – 31, 2019.
- 4th UMT International Conference on Pure and Applied Mathematics UICPAM. March 31 – April 02, 2018.
- 3rd UMT International Conference on Pure and Applied Mathematics UICPAM. October 05 - 07, 2017
- 1st UMT NATIONAL CONFERENCE ON Pure and Applied Mathematics, Department of Mathematics, University of Management and Technology. March 7-8, 2015
- One Day Symposium on Mathematics and its Applications, CIIT Lahore. April 02, 2011.
- All Pakistan Mathematical Conference 2010, National Center for Physics. June 22-23, 2010. Organized by: CIIT Islamabad.
- International scientific conference Design, Technology and Management in Manufacturing, Iasi, Romania. May 14-16, 2010.
- International Symposium on Frontiers of Computational Sciences, Holiday Inn Hotel Islamabad, June 7-8, 2010. Organized by: GIK and University of Illinois, USA.

- 3-Days Academic Retreat for HEC Approved PHD Supervisors, CIIT, Abbottabad, June 3-5, 2010. Organized by: HEC.
- 2-Day workshop on Science, Technology & Innovation Policy, CIIT Islamabad October 17-18, 2009.
- Conference on Recent Advances in Mathematical Methods, Models and Applications, LUMS, Lahore, April 18-19, 2009.
- International Conference on Recent Development in Fluid Mechanics, Quaid-i-azam University Islamabad, July 02-04, 2007.
- Professional Workshop in Communication Skills, December 05-21, 2006.
- Professional Development Workshop, November 06-08, 2006.
- International Conference in Mathematics and its applications, CIIT, Islamabad, January 22-22, 2006.
- LUMS International Conference on Mathematics and its applications in Information Technology, LUMS, November 27-30, 2005.
- 2nd World Conference on 21st Century Mathematics, SMS, March 04-06, 2005.
- Workshop Computer Aided Geometric Design and its Applications, SMS, Lahore, February 26 –March 02, 2007.
- School on Graph Theory, SMS, March 07-19, 2005.
- 1st World Conference on 21st Century Mathematics, SMS, Lahore, March 18-20, 2004.

Professional Services and Activities:

Reviewer Board Member:

- Case Studies in Thermal Engineering
- International Communications in Heat and Mass Transfer
- Symmetry
- PLOS One
- Journal of Mathematics
- Journal of Chemistry
- Mathematical Problems in Engineering
- Computer Modeling and sciences
- IEEE Access
- Scientific Inquiry and Review
- Mathematics
- Frontiers in Physics
- Nanomaterials
- Results in Physics
- Journal of Applied Mathematics and Computing
- Computational Methods for Differential Equations
- Journal of Plastic Film and Sheeting
- Part E: Journal of Process Mechanical Engineering
- Polycyclic Aromatic Compounds
- Asian European Journal of Mathematics
- Indian Journal of Physics
- AIMS Mathematics

- Frontier in Physics
- Modern Physics Letter B
- International Journal of Modelling and Simulation
- Journal of Heat and Mass Transfer Research
- Physica Scripta

Technical and Specialized skills:

I have experience working with computer software's MATHCAD, MATHEMATICA, MAPEL and DRIVE 6. These software's are used for graphics and a lot of mathematical computations. I have worked with LATEX (used for writing mathematical text in a nice way) and Scientific Workplace during my Ph.D. I have done one-year computer course at the Civic Computer Training Institute Lahore.

Foreign Language Abilities/ skills:

I have taken a course on **professional communication skills in English** from two professional American Linguists; **Prof. Dr. Phil Backlund and Prof. Judy Backlund**. In that course, we covered presentation skills, professional interviewing, persuasive presentations and English grammar. So, I can communicate in English in both written and oral forms.

Leadership and Management Skills:

- Understand the value of time and good skills of time management.
- Having good Leadership skills.
- Well-presented and good communications skills.
- Actively time class discussions and encouraging debate.
- Excellent time management skills to ensure targets are met and plans completed efficiency.
- Able to organize conferences and establish contacts with the wider academic community.

References:

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