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BIOGRAPHY

Dr. Hijaz Ahmad is an Associate Professor of Mathematics at the Prof. Dr. Irfan Süat Günsel Operational Research Institute (formerly the Operational Research Center in Healthcare), Near East University since February 2023. He received his MS degree in Applied Mathematics from the Department of Mathematics, COMSATS University Islamabad, and completed his PhD in Computational and Applied Mathematics in 2022 from the Department of Basic Sciences and Islamiat, University of Engineering and Technology Peshawar. Following his doctoral studies, he pursued postdoctoral research at Lebanese American University, further strengthening his international academic profile.

His research work is focused on the development and advancement of numerical techniques for finding the numerical solution of mathematical models in the form of partial and fractional partial differential equations arising in finance, computational biology, and various disciplines of engineering. He has introduced the modified variational iteration algorithm-I and modified variational iteration algorithm-II for the numerical solution of nonlinear partial differential equations, as well as the fractional variational iteration algorithm-I for finding the numerical solution of nonlinear non-integer order partial differential equations. His research scope is broad, covering numerical analysis, fractional calculus, mathematical biology, and mathematical physics.

He has published over 600 research articles in well-reputed SCIE-indexed journals, with a cumulative impact factor exceeding 2300 across his publications. His research has received over 14,000 citations on Google Scholar, with an h-index of 57, reflecting his strong global research impact and scholarly influence.

Dr. Ahmad has received multiple prestigious institutional awards from Near East University in recognition of his academic excellence and research contributions. In 2023 and 2024, he was honored with several distinctions, including the Most Influential Researcher Award, Best Academic Performance Award, Publication Award, and Publication Honor Award, recognizing his exceptional research productivity and academic performance.

He has also received numerous prestigious international recognitions and honors. In 2025, he was awarded the Obada Prize for outstanding academic and research achievements. In the same year, he received the Global Srinivasa Ramanujan Award from the Chendur Research Foundation, presented at the Global Conference on Computational Mathematics and Intelligent Engineering Applications 2025 hosted by Thammasat University, where he also received a Certificate of Appreciation for delivering a keynote lecture entitled “Optimization of Engineering Challenges.” He has been conferred an Honorary Professorship by Azerbaijan University in recognition of his academic contributions. Furthermore, he has been listed among the World’s Top 2% Most Cited Scientists for four consecutive years (2022–2025) by Stanford University and was ranked #2 in Cyprus and the top researcher at Near East University according to the 2024 edition of Research.com’s ranking of best scientists in mathematics.

In addition to his research achievements, Dr. Ahmad serves as an editor for numerous reputable international journals, including roles such as Editor-in-Chief, Managing Editor, and Associate Editor. He is also an active reviewer for high-impact journals, contributing significantly to maintaining the quality and integrity of scientific publishing worldwide.

The links to his research profiles are provided below:

ResearchGate:

<https://www.researchgate.net/profile/Hijaz-Ahmad>

Google Scholar:

<https://scholar.google.com/citations?user=JjwnbsoAAAAJ&hl=en>

Web of Science researcher ID:

<https://www.webofscience.com/wos/author/record/H-5958-2018>

**ACADEMIC
CURRICULUM VITAE**

1. Name - Surname: HIJAZ AHMAD

2. Title: Associate Prof. Dr.

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Department of Mathematics/Applied Mathematics	COMSATS University Islamabad, Pakistan	2015
Master's	Department of Mathematics/Applied Mathematics	COMSATS University Islamabad, Pakistan	2017
PhD	Department of Basic Sciences/Applied Mathematics	University of Engineering & Technology, Peshawar, Pakistan	2022

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s): "Variational iteration method with an auxiliary parameter for solving boundary value problems.": Assoc.Prof.Dr. Muhammad Rafiq

4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s): "Efficient Variational Iteration Algorithms for the Solution of Partial Differential Equations ": Assist. Prof.Dr. Tufail Ahmad Khan

5. Academic Titles:

Date of Assistant Professorship: 07 July 2023

Date of Associate Proferssorship:

Date of Professorship:

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

6.2. PhD Theses

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI,SSCI, AHCI, ESCI, Scopus)

1. Ahmad H. Computational Investigation of Fractal-Fractional Nonlinear Viscoelastic Fluids Using Local Radial Basis Function Method, *Revista Internacional de Métodos Numéricos para Cálculo y Diseño en Ingeniería*. 2026;42 (2): 54 https://www.scipedia.com/public/Ahmad_2026a (Q4, I.F=0.4)
2. Abdullah, Pan K, Bilal S, Ahmad H. Unsteady MHD Casson ternary hybrid nanofluid flow over a rotating inclined disk in a non-Darcy porous medium: a comparative study of Xue and Yamada–Ota models. *International Journal of Numerical Methods for Heat & Fluid Flow*. 2026;36(2):1076-95. (Q1, I.F=5.1)
3. Tahir M, Rafiq M, Ahmad H, Begum M, Radwan T. Analytical and numerical investigation of jet engine vibration equation using least square homotopy perturbation method. *Journal of Low Frequency Noise, Vibration & Active Control*. 2026. doi:10.1177/14613484251413078 (Q2, I.F=2.4)
4. Rayal A, Kaur J, Patel PA, Ozsahin DU, Ahmad H, Nguyen HM, Alraddadi I, Radwan T. A Spectral Collocation Scheme with 2D Ultraspherical Wavelets for Fractional Nonlinear Gas Dynamics Equations Under Caputo-Fabrizio Derivative. *Fractals*. 2026. (Q1, I.F= 2.9)
5. Iqbal MA, Nadeem U, Rehman S, Farooq A, Ahmad H, Awwad FA, Ismail EA. Hybrid-Optimized Gudermannian Neural Network for Oscillatory Dynamics. *IEEE Access*. 2026. (Q2, I.F= 3.6)
6. Ullah H, Ullah K, Asghar A, Tariq M, Ahmad H, Roushdy N. New Approach of Generalized α -Nonexpansive Mappings via HK-Iteration Process with Applications to Fractional Differential Equation and Boundary Value Problems. *Contemporary Mathematics*. 2026;7(1):742-73. (Q1, I.F=2.5)
7. Ahmad H, Ahmad S, Mikeska M, Najser J, Oqilat O. A Machine Learning Framework for Quantifying Microbial Dynamics in Hybrid (ZnO-CoFe₂O₄) Flows. *Results in Engineering*. 2026:109670. (Q1, I.F=6.0)
8. Qasim M, Ali H, Farooq A, Kamran M, Ahmad H, Awwad FA, Ismail EA. Intelligent neural framework for modeling the lifestyle-induced remission in the type 2 diabetes. *Chaos, Solitons & Fractals*. 2026;205:117841. (Q1, I.F=5.6)
9. Vishnukumar KS, Sivalingam SM, Govindaraj V, Uzun B, Ozsahin I, Ahmad H, Radwan T. Controllability of the Time-Varying Fractional Dynamical Systems Having Multiple Delyas in Control with Caputo Fractional Derivative. *Fractals*. 2026. (Q1, I.F= 2.9)
10. Lavanya M, Vadivoo BS, Ahmad H, Ozsahin DU, Radwan T. Langevin neutral impulsive fractional stochastic system along fractional Brownian motion-A controllability analysis. *Journal of Low Frequency Noise, Vibration & Active Control*. 2026. doi:10.1177/14613484261430389. (Q2, I.F=2.4)
11. Ramasekhar G, Selvi PD, Ahmad H, Abdelfattah WM. Polynomial regression analysis on electromagnetohydrodynamic hybrid nanofluid flow over a rotating disk: Applications in next-generation thermal systems. *South African Journal of Chemical Engineering*. 2025. (Q2, I.F=5.1)
12. Karthiga P, Sivalingam SM, Govindaraj V, Ahmad H. Controllability analysis of fractional nonlinear dynamical systems using Ψ -Caputo derivatives and prescribed controls. *Journal of Taibah University for Science*. 2026;20(1):2635196. (Q1, I.F=4.1)
13. Bushnaq S, Zeb A, Bashir A, Ahmad H, Irum S, Radwan T. Modeling backward bifurcation cholera diseases with time delays: insights into treatment impact. *Modeling Earth Systems and Environment*. 2026;12(2):111. (Q3, I.F=2.9)

14. Raza N, Khalid Z, Davletov E, Davletov I, Ahmad H. Modulation instability and soliton dynamics in birefringent optical fibers governed by the complex Ginzburg–Landau equation. *Zeitschrift für angewandte Mathematik und Physik*. 2026;77(3):103. (Q2, I.F=1.6)
15. Mostafa DM, Gaber AA, Zaman G, Ullah Z, Ahmed H, Younis TM. Analytical study for stagnation-point flow and heat transfer of MHD nanofluid over a stretching sheet in porous medium via modified adomian decomposition method. *International Journal of Analysis & Applications*. 2026;24:8-.(Q2, I.F=0.8)
16. Sharma R, Tomar RS, Mehta R, Ahmad H. Optically Controlled Microstrip Transmission Line for Slow Wave Propagation. *International Journal of Modern Physics C*. 2025. (Q4, I.F=1.6)
17. Rafiq MH, Rani B, Butt AR, Bayram M, Ahmad H, Radwan T. Unraveling the Bäcklund Transformation and Interaction Phenomena in Nonlinear Dispersive Media Describing Combined pKP-BKP System in (3+ 1) Dimensions. *Journal of Nonlinear Mathematical Physics*. 2026;33(1):28. (Q2, I.F=1.4)
18. Ahmad A, Raza M, Ahmad H, Khan F, Sattar S, Pamucar D, Simic V. Analysis and management of climate change incidents spread within the environment under coastal lives: Modeling and chaos control. *Results in Control and Optimization*. 2026:100671. (Q1, I.F=3.2)
19. Batool M, Ahmad H, Mastoi S, Khan MA, Ali U, Hussain SM, Oqilat O, Radwan T. Analysis and Compact Difference Approximation for Fractional-Order Reaction-Diffusion Equation with A Non-Singular Kernel: Laplace Transformation. *Fractals*. 2026. (Q1, I.F= 2.9)
20. Jebali M, Adnan, Mukalazi H, Khan SU, Klai Z, Bouzidi M, Ahmad H, Khan Y. Entropy and thermal dynamics motivated by ternary nanocomposites and geometric influence of oblique channel. *Scientific Reports*. 2026. (Q1, I.F=3.9)
21. Ibrahim RA, Ahmad H, Alnahdi AS, Ozsahin DU. The Painlevé analysis and computational technique for new wave solutions with its numerical validation to the complex short pulse equation. *Kuwait Journal of Science*. 2026:100556. (Q3, I.F= 1.1)
22. Khan S, Kumar D, Kumar R, Mehta R, Alraddadi I, Ahmad H, Oqilat O, Radwan T. Numerical Analysis of Williamson Nanofluid Flow over a Stretched Sheet in a Porous Medium with Radiation and Heat Source/Sink Effects. *Fractals*. 2026. (Q1, I.F= 2.9)
23. Kada B, Brahim M, Remlaoui A, Mohammed K, Hussain SM, Ahmad H, Alhubieshi N, Abd-Elmonem A, Fadhl BM, Makhdoum BM. Exploring thermodynamic processes through CFD of free convection of Bingham fluids in innovative hexagonal enclosure (Papanastasiou model). *Journal of Radiation Research and Applied Sciences*. 2026;19(1):102161. (Q2, I.F=2.5)
24. Al-Dawody MF, Abdulhamid J, Hussain SM, Ahmad H, Jamshed W, Eid MR, Abd-Elmonem A, Alhubieshi N. Impact of using plastic oil biodiesel on the thermal radiation characteristics of compression ignition engine. *Journal of Radiation Research and Applied Sciences*. 2026;19(1):102270. (Q2, I.F=2.5)
25. Murtaza S, Sambas A, Nawaz M, Mikeska M, Najser J, Hussain SM, Jalili B, Abdelfattah WM, Ahmad H. Thermal and Solutal Analysis of a Ternary Hybrid Nanofluid Flow in a Porous Channel: A Fractal-Fractional Model. *Fractals*. 2026. (Q1, I.F= 2.9)
26. Kottapalli R, Ganteda C, Bindu IBNH, Yarlagadda VO, Vanga VVR, Gorumutchu BV, Shaik K, Ahmad H, Abdelfattah WM, Oqilat O. Optimizing Alzheimer's data analysis through multi-cloud integration: A performance and reliability approach. *Results in Control and Optimization*. 2026;100687. doi:10.1016/j.rico.2026.100687. (Q1, I.F=3.2)

27. Raza Q, Wang X, Zubair Akbar Qureshi M, Siddique I, Siddique S, Ali B, Ahmad H, Radwan T. Significance of Fractal Interfacial Layer and Nanoparticle's Radius on the Dynamics of Nanofluids Flow via Channel of Porous Walls. *Fractals*. 2026. (Q1, I.F= 2.9)
28. Parveen R, Hussain SM, Ahmad H, Rehman S, Abulhassan ME, Eid MR, Makhdom BM. Coupled magnetic-driven convection and radiative heat transfer in an inclined trapezoidal enclosure. *Journal of Radiation Research & Applied Sciences*. 2026;19(1):102214. (Q2, I.F=2.5)
29. Ahmad H, Nadeem M, Asghar A, Efendiev R, Tariq M, Oqilat O. Some new approaches of Hermite–Hadamard type inequalities pertaining to generalized convexity on coordinates using hypergeometric function. *Azerbaijan Journal of Mathematics*. 2026;16(1). doi:10.59849/2218-6816.2026.1.220.
30. Hussain SM, Karim M, Ahmad H, Zulqarnain RM, Shabbir MS, Abd-Elmonem A, Eid MR, Siddig NA, Fadhl BM. Thermo-electrical analysis of blood flow in diseased arteries: A thermodynamic and numerical treatment. *Journal of Radiation Research & Applied Sciences*. 2026;19(1):102211. (Q2, I.F=2.5)
31. Ming L, Sabawi YA, Rezazadeh H, Ahmad H, Radwan T. Stochastic Breather and Soliton Dynamics of a Third-Order Complex mKdV (Higher-Order NLS-Type) Equation. *Journal of Nonlinear Mathematical Physics*. 2025. (Q2, I.F=1.4)
32. Ismail H, Hariharan S, Shangerganesh L, Ozsahin I, Ozsahin DU, Ahmad H. Stability analysis of a fractional prey–predator model with Holling type III functional response and disease in both populations. *Network Modeling Analysis in Health Informatics & Bioinformatics*. 2025;15(1):20. (Q3, I.F=2.0)
33. Farooq M, Zia F, Nawaz R, Khan A, Ozsahin I, Ahmad H, Abdelfattah WM. Analysis of Plane Poiseuille flow of non-isothermal couple stress fluid between two parallel inclined plates using two reliable methods. *International Journal of Thermofluids*. 2025 Dec 20:101520.
34. Obaid AA, Hakeem A, Ullah A, Zaman S, Ahmad H, Ali P, Belay MB. Predictive topological modeling of the structure–property relationships in naturally occurring anti-cancer chalcones. *Scientific Reports*. 2025 Dec 10. (Q1, I.F=3.9)
35. Alhubieshi N, Ali K, Hussain SM, Ahmad H, Eid MR, Jamshed W, Fadhl BM. Heat transfer control in MHD flow through internally finned vertical duct: A finite volume approach. *International Communications in Heat and Mass Transfer*. 2026;172:110298. (Q1, I.F=6.4)
36. 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* (2025), 57(06), 632-651
37. Khan NA, Aqeel A, Ozsahin DU, Ahmad H, Khan NA. Dynamics of SEINRS deterministic epidemic model in spatio-temporal heterogeneous medium with spatially finite domain. *International Journal of Modeling, Simulation & Scientific Computing*. 2025. (Q3, I.F=1.0)
38. Tang JH, Saleem M, Ullah A, Din NU, Zaman S, Ahmad H, Ali P, Belay MB. Information-theoretic entropy and topological descriptor analysis of tin oxide (SnO₂) for structural and property prediction. *Scientific Reports*. 2025 Nov 19;15(1):40903. (Q1, I.F=3.9)
39. Sudarmozhi K, Devi VS, Öztop HF, Ahmad H, Abd-Elmonem A, Siddig NA. AI-neural network modelling of Williamson blood flow in porous medium Soret-Dufour effects with tetra hybrid nanoparticles. *International Communications in Heat and Mass Transfer*. 2026 Feb 1;171:110107. (Q1, I.F=6.4)

40. Khan A, Khan DN, Zubair M, Karim M, Khan A, Hashim, Ahmad H, Abd-Elmonem A, Abulhassan ME. Nonlinear kinematic impacts on nanofluid flow across rough surface with numerical simulation. Scientific Reports. 2025 Nov 27. (Q1, I.F=3.9)
41. Tariq M, Ntouyas SK, Ahmad H, Efendiev R. Some new modifications of integral inequalities in the frame of AB fractional integral operator. Trans. Natl. Acad. Sci. Azerb. Ser. Phys.-Tech. Math. Sci. Mathematics, 46 (1), 1-22 (2026).
42. Muhammad Tariq, Ali Asghar, Sanaullah, Hijaz Ahmad, Evren Hincal, Ibrahim Alraddadi, Noura Roushdy, Refinements of Fejér-Type Inequalities Involving Special Functions, Contemporary Mathematics. (Q1, I.F=2.5)
43. Ullah H, Ullah K, Asghar A, Tariq M, Ahmad H, Abouelenen MF. Some New Convergence Approaches in Banach Spaces Involving the HK-Iteration Method with Application, Contemporary Mathematics. (Q1, I.F=2.5)
44. Chou D, Iqbal I, Rehman HU, Ahmad H, Radwan T. Dynamics of Low-Pass Electrical Transmission Lines: Lie Symmetries, Solitons, Bifurcations, and Modulation Instability. Journal of Nonlinear Mathematical Physics. 2025 Nov 28. (Q2, I.F=1.4)
45. Ullah H, Ullah K, Asghar A, Tariq M, Ahmad H, Roushdy N. New Approach of Generalized α -Nonexpansive Mappings via HK-Iteration Process with Applications to Fractional Differential Equation and Boundary Value Problems. Contemporary Mathematics. (Q1, I.F=2.5)
46. Khan A, Zubair M, Khan A, Hussain SM, Ahmad H, Abdalla NS. Nonlinear oscillatory and asymptotic convection flow analysis via rough cylinder with new exact and approximate solution structures. International Communications in Heat and Mass Transfer. 2026 Feb 1;171:110075. (Q1, I.F=6.4)
47. Mukhopadhyay A, Divyashree DP, Ramya CA, Ahmad H, Radwan T, Das S. Bio-signal Induced Emotion Monitoring and Detection of Anxiety: A Sensor-Driven Approach with Regression Based Random Forest. MethodsX. 2025 Nov 10:103713. (Q2, I.F=1.9)
48. Hussain SM, Ahmad H, Karim M, Fadhl BM, Jamshed W, Isa SS, Qureshi MA, Khan A. Numerical Simulation of Thermal Radiation Transmission in Casson Fluid Flow with Surface Heat and Mass Fluxes. Results in Engineering. 2025 Nov 10:108164. (Q1, I.F=6.0)
49. Ullah I, Khan WA, Karim M, Hussain SM, Ahmad H, Jamshed W, Isa SS. Thermal Analysis for Magneto-Carreau Based Ternary Hybrid Nanofluids Over Stretchable Surfaces Under Convective Conditions. Results in Engineering. 2025 Nov 5:108085. (Q1, I.F=6.0)
50. Ullah S, Khan D, Ali Z, Emam W, Pamucar D, Ahmad H. Heat Transfer Analysis of Casson Hybrid Nanofluid Flow Through Porous Convergent-Divergent Channels with Silicon Oil as Base Fluid. Journal of Nanofluids. 2025 Oct 1;14(5):649-58. (Q2, I.F=1.0)
51. Masadeh E, Alhazaymeh K, Al-shboul A, Abdelfattah WM, Zulqarnain RM, Siddique I, Ahmad H. An Extended TOPSIS Technique in Cubic Vague Soft Set Relations with Its Application in Renewable Energy Sources. European Journal of Pure and Applied Mathematics. 2025 Nov 5;18(4):7017-.(Q2, I.F=1.0)
52. Khan S, Shah NA, Ahmad H, Kamel A, Abdelfattah WM, Oqilat O. Partial Sums for Normalized Mittag-Leffler-Prabhakar Function and Barnes-Mittag-Leffler Function. European Journal of Pure and Applied Mathematics. 2025 Nov 5;18(4). (Q2, I.F=1.0)

53. Belgacem R, Bokhari A, Alraddadi I, Ahmad H, Abdelfattah W. A Hybrid Approach for Approximating a Smoking Epidemic Model via Caputo's Derivative, a Novel Integral Transform, and Artificial Neural Networks. *European Journal of Pure & Applied Mathematics*. 2025;18(4):6267-.(Q2, I.F=1.0)
54. Arif A, Nazam M, Ahmad H, Alraddadi IA, Xu C, Abdelfattah WM. The Ordered Implicit Relations: Fixed Point Problems and Applications. *European Journal of Pure and Applied Mathematics*. 2025 Nov 5;18(4):7033-.(Q2, I.F=1.0)
55. Adel M, Khader MM, Pamucar D, Ahmad H. Efficient Treatment of Some Important Fractal-Fractional Models: Theoretical and Numerical Study. *European Journal of Pure and Applied Mathematics*. 2025 Nov 5;18(4):6774-.(Q2, I.F=1.0)
56. Lavanya M, Sundaravadivoo B, Alraddadi I, Pamucar D, Oqilat O, Ahmad H. Stochastic Stability and Controllability Analysis of Impulsive Multi-Term Fractional Differential System. *European Journal of Pure and Applied Mathematics*. 2025 Nov 5;18(4):6820-.(Q2, I.F=1.0)
57. Khan N, Farooq M, Jan WU, Uzun B, Pamucar D, Ozsahin I, Ahmad H. Squeeze Flow of Ethylene Glycol-based Carbon Nanotube with the Influence of Joule Heating, Viscous Dissipation and Chemical Reactions. *European Journal of Pure and Applied Mathematics*. 2025 Nov 5;18(4):6935-.(Q2, I.F=1.0)
58. Adel M, Khader MM, Ahmad H, Oqilat O, Abdelfattah WM. Using the Multi-Domain Spectral Relaxation Method through a Numerical Simulation for the Brusselator System. *European Journal of Pure and Applied Mathematics*. 2025 Nov 5;18(4):7064-.(Q2, I.F=1.0)
59. Tayeb HK, Hakem A, Benali A, Alraddadi I, Ahmad H, Radwane T, Pamucar D. Global Well Posedness for Damped Wave Models with Damping in the Memory. *European Journal of Pure and Applied Mathematics*. 2025 Nov 5;18(4):6266-.(Q2, I.F=1.0)
60. Memon K, Shaikh MM, Ahmad H, Uzun B, Özsahin İ, Abdelfattah WM. Approximating Riemann-Stieltjes Integral Using New Time and Cost Efficient Trapezoid-type Quadrature. *European Journal of Pure & Applied Mathematics*. 2025 Nov 5;18(4):7112-.(Q2, I.F=1.0)
61. Iqbal M, Abbas M, Nazir T, Alfazan WF, Birhanu A, Ahmad H. Dromion solutions for system of ion sound and Langmuir waves using truncated Painlevé approach. *Scientific Reports*. 2025 Oct 24;15(1):37233. (Q1, I.F=3.9)
62. Ali Q, Amir M, Farman M, Metwally AS, Ahmad H. Comprehensive investigation of fractional jeffrey-type graphene-based nanofluid flow: significance of magnetic field, porosity, and mittag-leffler function. *Journal of Thermal Analysis and Calorimetry*. 2025 Oct 15:1-3. (Q2, I.F=3.0)
63. Khan A, Farooq M, Hussain SM, Ahmad H, Jamshed W, Eid MR, Abdalla NS. Heat and mass transfer in magnetic Casson nanofluids flow with radiation and stratification effects: Thermal management applications. *Journal of Radiation Research and Applied Sciences*. 2025 Dec 1;18(4):102019. (Q2, I.F=2.5)
64. Jamshed S, Shoaib M, Ahmad H, Awwad FA, Ismail EA. Heuristic computational approach for nonlinear reaction-diffusion kinetics in catalytic systems. *Scientific Reports*. 2025;15(1):37641. (Q1, I.F=3.9)
65. Rajhi W, Ben Hamida MB, Adnan, Walelign T, Ahmad H, Khan SU, Alrasheedi N. Comparative study of thermal response for tetra nanofluid through a vertically oriented needle device inspired by combined convection and porous media. *Scientific Reports*. 2025;15(1):36506. (Q1, I.F=3.9)
66. Faisal F, Haider Z, Ghani U, Ali H, Amjad M, Ahmad H, Alraddadi I. Derivation of Hermite Hadamard type inequalities via Quasi Preinvex functions and strongly Preinvex functions. *International Journal of Geometric Methods in Modern Physics*. 2025 Oct 16. (Q1, I.F=3.9)

67. Ayadi B, Ben Hamida MB, Adnan, Mukalazi H, Ahmad H, Khan SU, Alrasheedi N, Khan Y. Performance of triangular fin device coated with (SiC–Co₃O₄)/diathermic nanolubricant inspired by convective and radiation conduction using AI driven approach. *Scientific Reports*. 2025 Oct 6;15(1):34761. (Q1, I.F=3.9)
68. Zahir, H., Hussain, M., Ahmad, H. et al. Solar radiation impact on nanofluid flow and heat transfer between magnetized stretchable discs with variable thermal properties. *Sci Rep* 15, 35847 (2025). (Q1, I.F=3.9)
69. Khan A, Farooq M, Hussain SM, Ahmad H, Jamshed W, Eid MR, Suoliman NA. Convective heat transfer in ternary nanofluids over stretching sheets under radiation and slip conditions. *Journal of Radiation Research and Applied Sciences*. 2025 Dec 1;18(4):101974. (Q2, I.F=2.5)
70. Ahmad H, Ghazwani HA, Elsaeedy HI, Mosallem MM, Hayat AU. Numerical algorithm of fourth-grade nanofluid flow with heat transfer consists of aluminum alloys over a riga plate. *Journal of Thermal Analysis and Calorimetry*. 2025 Oct 11:1-4. (Q2, I.F=3.0)
71. Yadav A, Mahmud SF, Dabis HK, Idan AH, Al-Shukarji AH, Abdulridui HA, Mohammed NQ, Mohammed AK, Usmani YS, Ahmad H, Alhadrawi M. Spatiotemporal propagation of light pulses in a one-dimensional photonic crystal interacting with a squeezed vacuum. *Laser Physics Letters*. 2025 Sep 24;22(9):096202. (Q3, I.F=1.4)
72. Batool K, Shakir S, Zainab S, Ahmad H, Alhubieshi N, Eid MR, Abd-Elmonem A, Almaliki AH. A machine learning analysis for hybrid nanofluid flow between two co-axial cylinders. *Scientific Reports*. 2025 Sep 30;15(1):34099. (Q1, I.F=3.9)
73. Gouran S, Hamida MB, Ahmad H, Alshahrani S. Entropy generation and heat transfer investigation of a nanofluid subject to an exponential magnetic field. *Results in Physics*. 2025 Sep 23:108449. (Q2, I.F=5.3)
74. Chandrasekar A, Radhika T, Subhashri AR, Ahmad H, Radwan T. Resilient memory sampled-data controller for synchronization of semi-Markovian jump competitive neural networks with mixed delays. *International Journal of Electrical Power & Energy Systems*. 2025 Oct 1;171:110982. (Q1, I.F=5.0)
75. Ramalakshmi K, Vadivoo BS, Ozsahin DU, Ahmad H. Chemo-immunotherapy for optimal control of Tumor using Hilfer fractional derivative. *AIMS Mathematics*, 2025, 10(8): 19512-19539. (Q1, I.F=2.2)
76. Vivas-Cortez M, Atta Ullah Khan M, Akram G, Sadaf M, Abbas M, Ahmad H, Alharthi MR. Comparison of Soliton Behavior of Lakshmanan-Porsezian-Daniel Model for two Kinds of Fractional Derivatives. *Fractals*. 2025 Aug 4. (Q1, I.F= 2.9)
77. Khan NA, Ali M, Alraddadi I, Ahmad H. A Haar Wavelet Operational Matrix Method for Fractional Derivatives with Non-Singular Kernel. *Operations Research Forum* 2025, 6(3), 118.
78. Alnahdi AS, Gul T, Ahmad H. The rotation and stretching of the two disks enable the flow of hybrid nanofluid in a variable porous space for thermal applications. *Multidiscipline Modeling in Materials and Structures*. 2025 Aug 13:1-20. (Q3, I.F=1.9)
79. Medjahed L, Bousbaa H, Benramdane M, Naima K, Ameer H, Ozsahin DU, Ahmad H. Integrated valorization of waste cooking oil into biodiesel: optimizing upstream processes and blend performance for sustainable energy. *Modeling Earth Systems and Environment*. 2025 Dec;11(6):1-5. (Q3, I.F=2.9)
80. Iqbal S, Ali J, Siddique I, Alameri AQ, Ahmad H. Finite element analysis of thin film flows in non-Newtonian third grade Sisko fluid for lifting and drainage applications. *Advances in Mechanical Engineering*. 2025 Aug;17(8):16878132251364688. (Q3, I.F=2.0)
81. Hussain SM, Sajid T, Ahmad H, Eid MR, Jamshed W, Qureshi MA, Guedri K, Almaliki AH, Batool S, Bayram M. Cooling solar energy tiles application by tetra hybrid Cross nanomaterial influenced by thermal

- radiation and activation energy. *Journal of Radiation Research and Applied Sciences*. 2025 Sep 1;18(3):101825. (Q2, I.F=2.5)
82. Mariam A, Salamat N, Abdal S, Hussain S, Siddique I, Yaseen ZM, Ahmad H. Enhancing thermal transport in industrial applications: A study on AA7072–AA7075 hybrid nanofluid over a stretching cylinder with MHD and heat source/sink effects. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*. 2025 Mar 30:23977914251356729. (Q2, I.F=5.0)
 83. Khan IA, Ullah T, Sultan A, Ahmad H, Alburaikan A, Khalifa HA. Exploring Temporal Effects on Particle Dynamics in Dark Energy-Immersed Schwarzschild Black Hole. *International Journal of Modern Physics A*. 2025 Aug 18. (Q4, I.F=1.2)
 84. Guedri K, Faridi AA, Ahmad H, Ali K, Jamshed W, Abd-Elmonem A, Abdalla NS, Almaliki AH. Thermal analysis of ethylene glycol based tetra hybrid nanofluid flow over a stretchable permeable surface under the influence of induced magnetic field. *Journal of Molecular Liquids*. 2025 Sep 4:128485. (Q2, I.F=5.3)
 85. Kumar R, Gupta V, Ahmad H, Almohsen B, Pathania V. Response of double porous deformation on an initially stressed thermoelastic medium. *Journal of Thermal Stresses*. 2025:1-22. (Q2, I.F=2.6)
 86. Gogoi B, Saha UK, Ahmad H, Ozsahin DU, Adel M, Alotaibi MF. Integral Solutions of an Initial Value Problem of Fractional Dynamic Equations on Time Scale. *Fractals*. 2025. (Q1, I.F= 4.7)
 87. Emegano DI, Duwa BB, Usman AG, Ahmad H, Ozsahin DU, Askar S. A comparative study on TB incidence and HIVTB coinfection using machine learning models on WHO global TB dataset. *Scientific Reports*. 2025;15(1):13690. (Q1, I.F=3.9)
 88. Kumar R, Mehta R, Bhatnagar A, Uzun Ozsahin D, Ahmad H, Radwan T. Mathematical modeling of MHD mixed convective reiner–philippoff fluid with a stretching sheet embedded in a porous medium. *Fractals*. 2025;33(01). (Q1, I.F= 4.7)
 89. Najeed, M.R., Qasim, O.S., Algamal, Z.Y. et al. Improving α -Parameterized New Iterative Method with the Black-Winged Kite Algorithm for Solving Systems of Fuzzy Fractional Partial Differential Equation. *Int. J. Fuzzy Syst.* (2025). (Q2, I.F=3.6)
 90. Ahmad A, Khan MS, Ozsahin DU, Ahmad H, Munir A, Radwan T. Chaos control and sensitivity analysis of climate change under green gases and carbon omission utilizing caputo fractional operator. *Scientific Reports*. 2025 Jul 25;15(1):27063. (Q1, I.F=3.9)
 91. Alnahdi AS, Gul T, Ahmad H. The rotation and stretching of the two disks enable the flow of hybrid nanofluid in a variable porous space for thermal applications. *Multidiscipline Modeling in Materials and Structures*. 2025 Aug 13:1-20. (Q3, I.F=1.9)
 92. Zada L, Nawaz R, Ahmad H, Makhdoum BM, Suoliman NA, Almaliki AH, Bayram M. Influence of slip velocity and heat generation on magneto-nanofluid flow via divergent and convergent plates using perturbation technique. *Scientific Reports*. 2025 Jul 2;15(1):22802. (Q1, I.F=3.9)
 93. Ahmad A, Atta U, Farman M, Nisar KS, Ahmad H, Hincal E. Investigation of lassa fever with relapse and saturated incidence rate: mathematical modeling and control. *Modeling Earth Systems and Environment*. 2025 Jun;11(3):1-28. (Q3, I.F=2.7)
 94. Farman M, Ahmad A, Faheem M, Ahmad H. Globally analysis of production of lactic acid by *Lactobacillus plantarum* AC11S: kinetics using Mittag-Leffler kernel via mathematical modeling. *Modeling Earth Systems & Environment*. 2025;11(3):1-24. (Q3, I.F=2.7)

95. Khan MN, Nabi G, Khattak AM, Ismail EA, Awwad FA, Irshad M, Ahmad H, Suhail M. Efficacy of Foliar Application of Potassium Nitrate in the Regulation of Photosynthetic Pigments, Sex expression, Yield and Quality Attributes of Sweet Lime (*Citrus limmetoids*). *International Journal of Fruit Science*. 2025 Dec 31;25(1):40-51. (Q2, I.F=2.5)
96. Farooq M, Rahman AU, Khan A, Ozsahin I, Uzun B, Ahmad H. Comparative Analysis of Magnetohydrodynamic Inclined Poiseuille Flow of Couple Stress Fluids. *Journal of Computational Applied Mechanics*. 2025 Jul 1;56(3):536-60. (Q3, I.F= 1.5)
97. Farooq M, Nawaz R, Khan A, Ozsahin I, Uzun B, Ahmad H. Comparative Study of Non-Isothermal Poiseuille Flow of Couple Stress Fluid in Reynolds Model Between Inclined Plates Using Two Homotopy-Based Methods. *Journal of Computational Applied Mechanics*. 2025;56(3):561-75. (Q3, I.F= 1.5)
98. Divya P, Ranchani AA, Ahmad H, Reeda VJ, Radwan T, Haridas D. Structural and electrochemical investigation of benzimidazole picolinic acid derivatives for sustainable energy storage applications. *Scientific Reports*. 2025 Jul 1;15(1):20483. (Q1, I.F=3.9)
99. Bilal M, Riaz MB, Bajri SA, Jhangeer A, Khalifa HA, Ahmad H. Numerical simulation of non-Newtonian hybrid nanofluid flow subject to a heterogeneous/homogeneous chemical reaction over a Riga surface. *Nanotechnology Reviews*. 2025 Jul 18;14(1):20240133. (Q1, I.F=7.4)
100. Baber MZ, Bittaye E, Ahmad H, Ceesay B, Ahmed N. Dynamical behavior of synchronized symmetric waves in the two-mode Chaffee-Infante model via Hirota bilinear transformation. *Results in Engineering*. 2025 Jul 25:106328. (Q1, I.F=6.0)
101. Hakeem A, Ullah A, Zaman S, Mahmoud EE, Ahmad H, Ali P, Belay MB. Topological modeling and QSPR based prediction of physicochemical properties of bioactive polyphenols. *Scientific Reports*. 2025 Jul 28;15(1):27466. (Q1, I.F=3.9)
102. Bilal M, Kolsi L, Ahmad H, Ghazwani HA, Becheikh N, Farooq M. Numerical study of gyrotactic microorganism's based fourth-grade hybrid nanofluid flow under the influence of thermal radiation over a riga plate. *Journal of Radiation Research and Applied Sciences*. 2025 Sep 1;18(3):101826. (Q2, I.F=2.5)
103. Khan IA, Ullah T, Sultan A, Ahmad H, Hussien M, Ghodhban R. Geodesic Dynamics of Neutral and Charged Particles in Perturbed Reissner-Nordstrom-AdS Black Hole Surrounded by Quintessential Dark Energy. *International Journal of Geometric Methods in Modern Physics*. 2025 Jul 30. (Q1, I.F=2.6)
104. Bilal, H., Shah, R.A., Ahmad, H. et al. An intelligent framework for modeling nonlinear irreversible biochemical reactions using artificial neural networks. *Sci Rep* 15, 28458 (2025). <https://doi.org/10.1038/s41598-025-13146-5> (Q1, I.F=3.9)
105. Rafeeq, S., Hussain, S., Mansab, D. et al. On post-quantum multiparameter Riemann–Liouville fractional integral inequalities with application. *J Inequal Appl* 2025, 93 (2025). (Q1, I.F=1.8)
106. Gupta V, Awwad FA, Ismail EA, Ahmad H, Das S. Piezo-semiconductor-void interplay in the size-dependent dynamics of Rayleigh waves within the Moore–Gibson–Thompson framework. *International Journal of Numerical Methods for Heat & Fluid Flow*. 2025 Aug 8. (Q1, I.F=5.1)
107. Gouran S, Alshahrani S, Ahmad H. Investigation of particle motion in a rotatory flow field exposed to a forced vortex condition. *Particuology*. 2025 Aug 7. (Q2, I.F=4.3)
108. Ahmad H, Guedri K, Ahmad S, Ali K, Atta G, Hussain SM, Bayram M, Abd-Elmonem A. Numerical and machine learning based evaluation of ethylene glycol based hybrid nano-structured (TiO₂-SWCNTs) fluid flow. *Scientific Reports*. 2025;15(1):6084. (Q1, I.F=3.9)

109. Farman M, Jamil K, Nisar KS, Ahmad H, Sambas A. Predictive behaviour of globally rumour propagation using a fractional order a time scale dynamical model with synthetical social factors. *Journal of Applied Mathematics and Computing*. 2025:1-36. (Q1, I.F=2.4)
110. Qawaqneh H, Alrashedi Y, Ahmad H, Bekir A. Discovery of exact solitons to the fractional KP-MEW equation with stability analysis. *The European Physical Journal Plus*. 2025 Apr;140(4):1-8. (Q2, I.F=2.8)
111. Sankari MS, Rao ME, Ahmad H, Jamshed W, Eid MR, Hussain SM, Bayram M. Analysis of Gyrotactic Microorganism-Induced Bioconvective Transport and Flow Dynamics in Micropolar Nanofluids over an Exponentially Expanding Surface with Thermal and Solutal Effects. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*. 2025 Jan 13:23977914251333632. (Q2, I.F=5.0)
112. Mustafa R, Khan F, Mustafa G, Saleem R, Asghar M, Ahmad H. Bounding the distance between the k th control mesh and the limit surface of Li's subdivision. *Numerical Algorithms*. 2025:1-23. (Q1, I.F=1.7)
113. Shahzadi K, Bukhari SA, Ahmed SO, Awwad FA, Ismail EA, Ali U, Ahmad H. Approximate Analytical Solution for the Variable-order Fractional Infectious Diseases Model. *Fractals*. 2025. (Q1, I.F= 4.7)
114. Usman AG, Mati S, Daud H, Suleiman AA, Abba SI, Ahmad H, Radwan T. Optimized SVR with nature-inspired algorithms for environmental modelling of mycotoxins in food virtual-water samples. *Scientific Reports*. 2025 May 13;15(1):1-7. (Q1, I.F=3.9)
115. Mohamed AS, Gul B, Khan MS, Aziz SM, Ahmad H, Abbas F. Exploring the impact of chalcogen substitution in novel ternary chalcogenides: insight from first-principles investigation. *Indian Journal of Physics*. 2025 Mar 12:1-3. (Q2, I.F=1.6)
116. Bibi S, Majeed A, Ahmad H, Jamshed W, Eid MR, Mohd Nasir NA. Thermal analysis of Cu-nanofluid based on sodium alginate and Al_2O_3 (aluminium oxide) with nanoparticles shapes effect under transverse magnetic field. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*. 2024 Aug 30:23977914251320526. (Q2, I.F=5.0)
117. Hasan A, Farman M, Ghaffari AS, Chaudhry F, Ahmad H, Sultan M. Computational Analysis of Monkeypox Disease with Incident Infection Rate by using Fractal Operator. *Progress in Fractional Differentiation and Applications*, 11(2);279-302
118. Mathivanan T, Bheeman R, Dhandapani PB, Alraddadi I, Ahmad H, Radwan T. Monkeypox: A New Mathematical Model Using the Caputo-Fabrizio Fractional Derivative. *Fractals*. 2025. (Q1, I.F= 4.7)
119. Hussain SM, Arshad M, Ahmad H, Jamshed W, Guedri K, Qureshi MA, Isa SS, Almaliki AH, Bayram M. Comprehensive investigations of (Ti-6Al-4V-AA7075/engine oil) nanofluid flowing with thermal radiative heat flux: Significant upshots. *Journal of Radiation Research and Applied Sciences*. 2025 Jun 1;18(2):101466. (Q2, I.F=2.5)
120. Hussain SM, Ahmad H, Hussain M, Faridi AA, Khan N, Jamshed W. Relaxation analysis of entropy generation in MHD flow of Williamson nanofluid between stretchable discs: Thermal engineering application. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*. 2025 Jan 28:23977914251339227. (Q2, I.F=5.0)
121. Hajizadeh S, Jalili B, Jalili P, Ganji DD, Ahmad H. Influence of flow parameters in incompressible electrically conducting fluid over a stretching plate with a surface condition factor. *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*. 2025 May;105(5):e70075. (Q1, I.F=2.3)

122. Choudhary S, Mehta R, Sharma R, Ahmad H. Numerical Analysis on MHD Heat Transfer of Casson Hybrid Nanofluid (Cu-Al₂O₃/H₂O) flow across an Inclined Moving Plate in presence of Radiation. Canadian Journal of Physics. 2025. (Q3, I.F=1.1)
123. Khan N, Farooq M, Ullah Jan W, Alraddadi I, Omri M, Ladhar L, Ahmad H. Influence of Hall Current and Entropy Generation Effects on Squeezing Flow with Homogeneous and Heterogeneous Chemical Reactions. Journal of Computational Applied Mechanics. 2025 Oct 1;56(4):802-24. (Q3, I.F= 1.5)
124. Hussain SM, Faridi AA, Ahmad H, Ali K, Iqbal MR, Jamshed W, Guedri K, Almaliki AH. Irreversibility analysis of magnetized flow of engine oil hybrid nanofluid (Ti6Al4V-ZnO/EO) over a stretching surface. Alexandria Engineering Journal. 2025 Aug 1;127:214-27. (Q1, I.F=6.2)
125. Khan A, Qureshi MA, Ahmad H, Farooq M, Jamshed W, Eid MR, Hussain SM. Comprehensive study of Maxwell-Buongiorno models with suction-injection and cubic stratification: Unlocking complex heat and mass transfer mechanisms in nonlinear convection. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems. 2025. (Q2, I.F=5.0)
126. Adel, M., Khader, M. M., Riaz, M. B., Alraddadi, I., Ahmad, H.. "Numerical study for the fractional model of banks' competition using two efficient computational methods." Journal of Mathematics and Computer Science, 39, no. 4 (2025): 437-452. (Q1, I.F= 1.0)
127. Farooq M, Shahida F, Ayaza S, Gasimov YS, Alraddadi I, Ahmad H. Analytical Solutions for Heat Transfer and Flow of Thin Film on an Inclined Wall Using the Optimal Homotopy Asymptotic Method. Journal of Computational Applied Mechanics. 2025 Apr 1;56(2):396-410. (Q3, I.F= 1.5)
128. Bilal M, Farooq M, Benghanem M, Ahmad H. Entropy optimization in non-newtonian prandtl-eyring fluid using ANN over a curved riga surface. International Journal of Thermal Sciences. 2025;212:109765. (Q1, I.F=4.9)
129. Guedri K, Hussain SM, Ahmad H, Abd-Elmonem A, Al-lehaibi M, Rehman S, Eid MR. Heatline analysis of magnetic lid-driven radiated nanofluids flow via trapezoidal cavity in porous media. Journal of Radiation Research and Applied Sciences. 2025 Sep 1;18(3):101805. (Q2, I.F=2.5)
130. Dar MN, Hussain A, Bouallegue B, Ahmad H. Influence of consistency coefficient and behavior index of power law model on heat and mass transfer via elliptical stenosed artery. Journal of Thermal Analysis and Calorimetry. 2025 Jun 24:1-4. (Q2, I.F=3.0)
131. Nazneen A, Ali N, Hussain SM, Ahmad H, Nawaz R, Zada L, Irfan R, Guedri K, Almaliki AH, Bayram M. Fractional analysis of Benjamin-Bona-Mahony equation across natural transform iterative method: thermal engineering implementations. Scientific Reports. 2025 Jun 17;15(1):20082. (Q1, I.F=3.9)
132. Hussain SM, Ahmad H, Garalleh HA, Amjad M. Thermodynamic Case Assessment of the Micropolar Fluid using Neural Network Fitting Tool and Quasi-linearization Technique: An Asymmetric Channel Flow Application. Case Studies in Thermal Engineering. 2025:105874. (Q1, I.F=6.4)
133. Abd-Elmonem A, Ahmad H, Garalleh HA, Atta G, Amjad M, Suoliman NA, Jamshed W, Hussain SM. Machine learning and differential transform simulation in analysing the ionic liquid (EtSO₄) based ternary hybrid flow over a curved geometry. Journal of Molecular Liquids. 2025:127109. (Q2, I.F=5.3)
134. Bibi S, Majeed A, Irfan R, Ahmad H, Jamshed W, Nasir NA, Hussain SM. Ternary Nanofluid Flow Over a Stretching Surface with Nanoparticles Shapes Effect Under Transverse Magnetic Field Using Runge Kutta Fehlberg Method. Results in Engineering. 2025:104378. (Q1, I.F=6.0)

135. Khan A, Ahmad H, Devi SU, Farooq M, Batool S, Hussain SM. Significance of Melting Heat Transfer in Maxwell Nanofluid Stagnation Point Flow across Quadratic Stratified Riga Surface. *Results in Engineering*. 2025;104456. (Q1, I.F=6.0)
136. Farman M, Nisar KS, Ali M, Ahmad H, Tabassum MF, Ghaffari AS. Chaos and forecasting financial risk dynamics with different stochastic economic factors by using fractional operator. *Modeling Earth Systems and Environment*. 2025;11(2):146. (Q3, I.F=2.7)
137. Hayat AU, Ahmad H, Gana S, Muhammad T, Eladeb A, Kolsi L. Entropy analysis in tri-hybrid nanofluid flow past a curved surface with applications of heat radiation and Lorentz force; numerical simulation. *Journal of Radiation Research and Applied Sciences*. 2025;18(1):101276. (Q2, I.F=2.5)
138. Nazneen A, Nawaz R, Zada L, Ali N, Benghanem M, Ahmad H. Analysis of the non-linear higher dimensional fractional differential equations arising in dusty plasma using the Atangana–Baleanu fractional derivative. *Results in Engineering*. 2025;104116. (Q1, I.F=6.0)
139. Farooq M, Shahid F, Ayaz S, Alraddadi I, S. Gasimov Y, Ahmad H. Modelling and Simulations of a Couple Stress Fluid Flow and Heat Transfer in Inclined Geometry. *Sigmae*. 2025;14(4):58-74. (Q4, I.F=.1)
140. Bouzidi M, Haq MU, Ullah I, Shukat S, Ahmad H, Alam MM, Khan H, Kouki M. Thermodynamics and solar radiative analysis in Jeffery-Hamel flow through non-parallel channel by novel improved residual power series method. *Case Studies in Thermal Engineering*. 2025;66:105767. (Q1, I.F=6.4)
141. Shankar Goud B, Jamshed W, Ahmad H, Safdar R, Isa SS, Hussain SM, Bayram M, Dharmaiah G. Thermal Diffusion Effect Analysis of Micropolar Nanofluid Flowing on Inclined Surface: A Chemical Engineering Case Study. *Heat Transfer*. 2025. (Q2, I.F=2.8)
142. Kumar R, Mehta R, Bhatnagar A, Ozsahin I, Uzun B, Almohsen B, Ahmad H. Numerical Study of Williamson Fluid Flow over a Stretching Sheet with Newtonian Heating Embedded in a Porous Medium in Presence of Thermal Radiation and Heat Source/Sink. *Journal of Nonlinear Mathematical Physics*. 2025 Dec;32(1):1-2. (Q2, I.F=1.4)
143. Ramalakshmi K, Vadivoo BS, Ahmad H. A fractional-order optimal control models for plant-locust surveillance mechanism with singular and non-singular derivative operators. *The European Physical Journal Special Topics*. 2025:1-29. (Q2, I.F=2.8)
144. Bilal M, Maiz F, Farooq M, Ahmad H, Nasrat MK, Ghazwani HA. Novel numerical and artificial neural computing with experimental validation towards unsteady micropolar nanofluid flow across a Riga plate. *Scientific Reports*. 2025;15(1):759. (Q1, I.F=3.9)
145. Dhandapani PB, Abraham AR, Ahmad H, Radwan T. Novel solutions and stability of quaternion differential equations: symmetry and asymmetry analyses using matrix representation and Lyapunov methods. *Applied Mathematics in Science and Engineering*. 2025;33(1):2448192. (Q2, I.F=1.7)
146. ur Rehman H, Shuaib M, Ahmad H, Ullah A, Maiz F. Medical ultrasound thermal therapy by incommensurate fractional modeling of acoustic bubble dynamics. *International Communications in Heat and Mass Transfer*. 2025;161:108423. (Q1, I.F=6.4)
147. Ahmad H, Nawaz R, Zia F, Farooq M, Almohsen B. Application of novel method to withdrawal of thin film flow of a magnetohydrodynamic third grade fluid. *Ain Shams Engineering Journal*. 2024 Jul 14:102885. (Q1, I.F=6.0)

148. Houwe A, Abbagari S, Akinyemi L, Doka SY, Metwally AS, Ahmad H. Bifurcation and chaotic patterns of the solitary waves in nonlinear electrical transmission line lattice. *Chaos, Solitons & Fractals*. 2024 Sep 1;186:115231. (Q1, I.F=5.3)
149. Ahmad H, Tariq KU, Kazmi SR. Stability, modulation instability and traveling wave solutions of (3+ 1) dimensional Schrödinger model in physics. *Optical & Quantum Electronics*. 2024;56(7):1237. (Q2, I.F=3.3)
150. Ahmad H, Farooq M, Khan I, Nawaz R, Fewster-Young N, Askar S. Analysis of nonlinear fractional-order Fisher equation using two reliable techniques. *Open Physics*. 2024 May 11;22(1):20230185. (Q2, I.F=1.8)
151. Gupta V, Ahmad H, Barak MS, Das S, Kumar S. Rayleigh wave in nonlocal piezo-thermo-electric semiconductor medium with fractional MGT model. *Waves in Random and Complex Media*. 2024:1-24.
152. Sankari MS, Rao ME, Jamshed W, Eid MR, Hussain SM, Ahmad H, Abd-Elmonem A, Alhubieshi N. Exploring heat transfer in magnetized binary nanofluid flows with gyrotactic microorganisms through bioconvection analysis. *Numerical Heat Transfer, Part A: Applications*. 202:1-22. (Q2, I.F=2.8)
153. Nawaz R, Farooq M, Rehman SU, Ismail GM, Ahmad H. Analytical Analysis of Thermal Conductivity by Laminar Flow Under the Influence of MHD Using Vogel's Model. *Acta Mechanica et Automatica*. 2024;18(3):548-63. (Q4, I.F=1.0)
154. Khan MS, Gul B, Khan G, Benabdellah G, Ahmad B, Albaqami MD, Mohammad S, Auranzeb MK, Ahmad H. Exploring the physical properties of novel ACu₃S₃ (A= Sc, Y) semiconductors via first-principles calculation. *Materials Science in Semiconductor Processing*. 2024;182:108696. (Q2, I.F=4.2)
155. Murugan RD, Sivakumar N, Tarakaramu N, Ahmad H, Askar S. Entropy generation on MHD motion of hybrid nanofluid with porous medium in presence of thermo-radiation and ohmic viscous dissipation. *Discover Applied Sciences*. 2024;6(4):199.
156. Bilal M, Alameer A, Ahmad H, Khalifa HA, Shaaban AA, Khan Y. Numerical study of an electrically conducting nanofluid flow past a vertical stretching Riga plate. *Journal of Radiation Research and Applied Sciences*. 2024;17(4):101195. (Q2, I.F=2.5)
157. Adel M, Khader MM, Alraddadi I, Sweilam NH, Riaz MB, Ahmad H. An Effective Numerical Method for Studying the Fractal-Fractional Smoking Model. *Fractals*. 2024 Oct 29. (Q1, I.F= 4.7)
158. Bilal M, Farooq M, Ahmad H, Ullah I, Alam MM. Mathematical simulation of tangent hyperbolic nanofluid flow coupled with homogenous/heterogeneous chemical reaction by using Levenberg–Marquardt back propagation over a Riga plate. *Journal of Thermal Analysis and Calorimetry*. 2024:1-5. (Q2, I.F=3.0)
159. Yasin MW, Ahmed N, Saeed J, Raza A, Rafiq M, Ahmad H, Mastaliyev R, Almohsen B. Numerical Study of the Reaction Diffusion Prey–Predator Model Having Holling II Increasing Function in the Predator Under Noisy Environment. *Journal of Nonlinear Mathematical Physics*. 2024;31(1):68. (Q2, I.F=1.4)
160. Das A, Ahmad H, Bag T. Some fixed point theorems in generalized parametric metric spaces and applications to ordinary differential equations. *Mathematica Slovaca*. 2024;74(5):1277-90. (Q2, I.F= 1.6)
161. Yousaf MZ, Abbas M, Iqbal MK, Hamed YS, Aljohani AF, Ahmad H. Abundant different types of soliton solutions with stability analysis for the (2+ 1)-dimensional extended shallow water wave equation in ocean engineering with applications. *Nonlinear Dynamics*. 2024:1-21. (Q1, I.F= 5.6)
162. Sadaf M, Arshed S, Akram G, Iqbal MA, Ahmad H, Ali MR. Simulations for the Schrödinger–Hirota equation arising in nonlinear optics in the presence of chromatic dispersion. *Partial Differential Equations in Applied Mathematics*. 2024:100969.

163. Wasim D, Suhail M, Khan SA, Shabbir M, Awwad FA, Ismail EA, Ahmad H, Ali A. Quantile-based robust Kibria–Lukman estimator for linear regression model to combat multicollinearity and outliers: Real life applications using T20 Cricket sports and anthropometric data. *Kuwait Journal of Science*. 2024;100336. (Q3, I.F=1.2)
164. Zada L, Ullah I, Islam S, Nawaz R, Abd-Elmonem A, ElSeabee FA, Ahmad H. Exploration of Chemical Reaction and Activation Energy Role of Jeffery-Hamel Jeffery Fluid Flow in Penetrable Non-Parallel Channels with Entropy Optimization. *Results in Engineering*. 2024 Oct 18;103177. (Q1, I.F=6.0)
165. Ahmad A, Farman M, Sultan M, Ahmad H, Askar S. Analysis of Hybrid NAR-RBFs Networks for complex non-linear Covid-19 model with fractional operators. *BMC Infectious Diseases*. 2024 Sep 27;24(1):1051. (Q2, I.F=3.4)
166. Yalcinkaya I, Tasbozan O, Kurt A, Ahmad H. Solution approximations for a mathematical model of relativistic electrons with beta derivative. *Applied Mathematics-A Journal of Chinese Universities*. 2024 Sep;39(3):469-85. (Q2, I.F=1.2)
167. Abd-Elmonem A, Imtiaz M, Rubbab Q, Ali F, Alhubieshi N, Jamshed W, Eid MR, ElSeabee FA, Ahmad H. Effects of time-dependent and radiation on a tri-hybrid nanofluid flowing on stretchable/shrinkable cylinders with irregular heat generation/absorption using Ohmic heating. *Case Studies in Thermal Engineering*. 2024 Oct 1;62:105167. (Q1, I.F=6.4)
168. Ramasekhar G, Ahmad H, Ozsahin DU, Alotaibi MF. Aviation aspects of engine oil conveying copper tiny particles embedded in a rotating disk with a binary chemical reaction. *Case Studies in Thermal Engineering*. 2024 Nov 1;63:105180. (Q1, I.F=6.4)
169. Ullah I, Hayat AU, Alam MM, Kouki M, Khan H, Ahmad H. Entropy formation in second grade nanofluid flow across a curved surface with the impact of activation energy and chemical reaction. *Case Studies in Thermal Engineering*. 2024 Nov 1;63:105151. (Q1, I.F=6.4)
170. Kumbinarasaiah S, Rezazadeh H, Ahmad H. A novel approach for the nonlinear elliptic partial differential equations using clique polynomials of graph. *Journal of Applied Analysis & Computation*. 2025;15(1):56-75. (Q3, I.F=1.0)
171. Sivalingam SM, Vellappandi M, Govindaraj V, Alraddadi I, Ahmad H. Controllability of time-varying fractional dynamical systems. *Journal of Taibah University for Science*. 2024;18(1):2399378. (Q2, I.F=2.8)
172. Raj RN, Rajan RS, Ahmad H. A Comprehensive Analysis of Partition Dimensions in Efavirenz Abacavir Lamivudine Doravirine of Anti-HIV Drug Structures. *Iraqi Journal for Computer Science and Mathematics*. 2024;5(4):9.
173. Fioranelli M, Rathebe PC, Sepehri A, Ahmad H, Beesham A, Haghpeima A. A Mathematical Model for Controlling SARS-COV 2 by Triplet Oxygen Molecules, Spinning Bubbles and Other Spinors. *Contemporary Mathematics*. 2024 Nov 22:5395-412. (Q3, I.F=0.6)
174. Satish R, Raju BT, Umamaheswar M, Sibyala VV, Ganteda C, Abd-Elmonem A, ElSeabee FA, Alhubieshi N, Eid MR, Jamshed W, Ahmad H. Case Study of Radiation Absorptive and Chemical Reactive Impacts on Unsteady MHD Natural Convection Flowing of Cu-Al₂O₃/H₂O Hybridized Nanofluid. *Case Studies in Thermal Engineering*. 2024 Nov 24:105536. (Q1, I.F=6.4)
175. Abd-Elmonem A, Rubbab Q, Garalleh HA, Rehman F, Amjad M, ElSeabee FA, Abdalla NS, Jamshed W, Hussain SM, Ahmad H. Thermal characteristics of hybrid Nanofluid (Cu-Al₂O₃) flow through Darcy

- porous medium with chemical effects via numerical successive over relaxation technique. *Case Studies in Thermal Engineering*. 2024 Nov 26;105538. (Q1, I.F=6.4)
176. Al-Dawody MF, Maki DF, Al-Obaidi W, Aboud ED, Abdulkadhim A, Jamshed W, Abd-Elmonem A, Alhubieshi N, ElSeabee FA. Effects of mixing tallow methyl ester with diesel fuel on the thermal characteristics of diesel engine. *Energy Conversion & Management: X*. 2024;100804. (Q1, I.F=9.9)
 177. Gopan G, Arun M, Adel M, Ahmad H. Investigation of Multi-modal Binder Optimization Characterization Modeling by Using Metal Oxide Nanoparticles. *BioNanoScience*. 2025;15(1):1-2. (Q3, I.F=3.0)
 178. Alraddadi I, Alsharif F, Malik S, Ahmad H, Radwan T, Ahmed KK. Innovative soliton solutions for a (2+1)-dimensional generalized KdV equation using two effective approaches. *AIMS Mathematics*. 2024;9(12):34966-80. (Q1, I.F=2.2)
 179. Singhal A, Tiwari R, Gupta V, Dutta R, Ahmad H, Das S. Rheology-dependent surface wave characteristics in an advanced geomaterial flexoelectric plate with viscoelastic coating. *Physica Scripta*. 2024. (Q2, I.F=2.6)
 180. Abd-Elmonem A, Shams ZE, Imtiaz M, Ali K, Ahmad S, Jamshed W, ElSeabee FA, Alhubieshi N, Hussain SM, Ahmad H. Flow dynamics in a vertical pipe with internal fins exposed to sunlight—A machine learning based evaluation of thermal signature. *Energy Conversion & Management: X*. 2024;100846. (Q1, I.F=9.9)
 181. Jayaprakash J, Govindan V, Patil J, Hanumagowda BN, Ahmad H, Tawade JV. The Effect of Magneto-hydrodynamics on Curved Circular Plate and Porous-rough Flat Plate with Non-Newtonian Fluid. *Journal of Applied and Computational Mechanics*. 2024. (Q2, I.F=3.0)
 182. Qawaqneh H, Manafian J, Alsubaie AS, Ahmad H. Investigation of exact solitons to the quartic Rosenau-Kawahara-Regularized-Long-Wave fluid model with fractional derivative and qualitative analysis. *Physica Scripta*. 2024 Dec 24;100(1):015270. (Q2, I.F=2.6)
 183. Khader MM, Ahmad H, Adel M. Optoelectronic application of Chebyshev spectral collocation method for solving the MHD nanofluid flow and heat transfer induced by a convectively heated stretching sheet. *The European Physical Journal Special Topics*. 2024;1-1. (Q2, I.F=2.6)
 184. Murugan RD, Sivakumar N, Tarakaramu N, Ahmad H, Askar S. Entropy generation on MHD motion of hybrid nanofluid with porous medium in presence of thermo-radiation and ohmic viscous dissipation. *Discover Applied Sciences*. 2024;6(4):199. (ESCI, I.F=2.8)
 185. Razzaq W, Zafar A, Nazir A, Ahmad H, Zaagan AA. Dark, bright and singular optical solitons for Biswas–Milovic equation with Kerr and dual power law nonlinearities. *Modern Physics Letters B*. 2024 Jul 20;2450443. (Q3, I.F=1.8)
 186. Akula NK, Tarakaramu N, Ramesh O, Askar S, Rayudu UM, Ahmad H, Khan MI. An intuitionistic fuzzy graph's variation coefficient measure with application to selecting a reliable alliance partner. *Scientific Reports*. 2024;14(1):18000. (Q1, I.F=3.9)
 187. Kumar M, Singh A, Kumari N, Ahmad H, Askar S, Kaswan P, Kumari M. Wave-induced fluid flow and reflection/transmission of seismic waves at a fluid/double-porosity thermoelastic medium interface. *Physica Scripta*. 2024 Jul 3. (Q2, I.F=2.6)
 188. Kumar M, Kaswan P, Kumari M, Ahmad H, Askar S. Cattano Christov double diffusion model for third grade nanofluid flow over a stretching Riga plate with entropy generation analysis. *Heliyon*. 2024 May 30;10(10). (Q1, I.F=4.0)

189. Hussain M, Zaman Q, Ahmad H, Albalawi O, Iftikhar S. Improved exponential type variance estimators for population utilizing supplementary information. *Heliyon*. 2024. (Q1, I.F=4.0)
190. Khader MM, Ahmad H, Adel M, Megahed AM. Numerical analysis of the MHD Williamson nanofluid flow over a nonlinear stretching sheet through a Darcy porous medium: Modeling and simulation. *Open Physics*. 2024;22(1):20240016. (Q2, I.F=1.8)
191. Ahmad H, Ismail GM, Alraddadi I, El-Agamy RF, Aljanabi M, Farooq U. Exploring Advanced Analysis Technique for Shallow Water Flow Models with Diverse Applications. *Iraqi Journal For Computer Science and Mathematics*. 2024 May 30;5(2):135-46.
192. Arun M, Gopan G, Vembu S, Ozsahin DU, Ahmad H, Alotaibi MF. Internet of Things and Deep Learning-Enhanced Monitoring for Energy Efficiency in Older Buildings. *Case Studies in Thermal Engineering*. 2024 Jul 27:104867. (Q1, I.F=6.4)
193. Dutta R, Das S, Ahmad H, Meghana AR, Gupta V. Comparative analysis of double and single porosity effects on SH-wave induced vibrations in periodic porous lattices. *Soil Dynamics and Earthquake Engineering*. 2024;186:108919. (Q1, I.F=4.2)
194. Mohamed AS, Gul B, Khan MS, Ahmad H, Awang MK, Abbas F. Investigating novel Mo₂X₃S (X= Se, Te) materials: probing the influence of chalcogen substitution on electronic, optical, and thermoelectric properties. *Physica Scripta*. 2024;99(10):105949. (Q2, I.F=2.6)
195. Arun M, Barik D, Ahmad H, Alraddadi I, Shenashen MA, Khan ZA. Parabolic trough solar collector technology using TiO₂ nanofluids with dimpled tubes. *Case Studies in Thermal Engineering*. 2024 Jul 26:104840. (Q1, I.F=6.4)
196. Imran M, Alsadat N, Tahir MH, Jamal F, Elgarhy M, Ahmad H, Johannssen A. The development of an extended Weibull model with applications to medicine, industry and actuarial sciences. *Scientific Reports*. 2024 May 29;14(1):12338. (Q1, I.F=3.9)
197. Islam T, Fayz-Al-Asad M, Khatun MA, Parveen N, Ahmad H, Askar S. Natural convection heat transport performance of nanofluids under the influence of inclined magnetic field. *Results in Physics*. 2024:107365. (Q2, I.F=5.3)
198. Anjapuli Panneer Selvam, Venkatesan Govindaraj, Hijaz Ahmad, Examining reachability criteria for fractional dynamical systems with mixed delays in control utilizing ψ -Hilfer pseudo-fractional derivative, *Chaos, Solitons & Fractals*, 181, 2024, 114702. (Q1, I.F= 7.8)
199. Vishnukumar KS, Sivalingam SM, Ahmad H, Govindaraj V. Controllability of the time-varying fractional dynamical systems with a single delay in control. *Nonlinear Dynamics*. 2024 Mar 28:1-7. (Q1, I.F= 5.6)
200. Zada L, Ullah I, Nawaz R, Jamshed W, Saddam EN, Idris SA, Ahmad H, Amjad A. Computational treatment and thermic case study of entropy resulting from nanofluid flow of convergent/divergent channel by applying the lorentz force. *Case Studies in Thermal Engineering*. 2024:104034. (Q1, I.F=6.8)
201. Khader MM, Adel M, Riaz MB, Ahmad H. Theoretical treatment and implementation of the SCM included Appell-Changhee polynomials for the fractional delayed carbon absorption-emission model. *Results in Physics*. 2024:107459. (Q2, I.F=5.3)
202. Jain R, Mehta R, Bhatnagar A, Ahmad H, Khan ZA, Ismail GM. Numerical study of heat and mass transfer of williamson hybrid nanofluid (CuO/CNT's-water) past a permeable stretching/shrinking surface with mixed convective boundary condition. *Case Studies in Thermal Engineering*. 2024:104313. (Q1, I.F=6.8)

203. Jangid S, Mehta R, Bhatnagar A, Alotaibi MF, Ahmad H. Heat and mass transfer of hydromagnetic williamson nanofluid flow study over an exponentially stretched surface with suction/injection, buoyancy, radiation and chemical reaction impacts. *Case Studies in Thermal Engineering*. 2024;104278. (Q1, I.F=6.8)
204. Ali R, Zhang Z, Ahmad H, Alam MM. The analytical study of soliton dynamics in fractional coupled Higgs system using the Khater method. *Optical and Quantum Electronics*. 2024;56(6):1067. (Q2, I.F=3.0).
205. Yang D, Ahmad S, Ali K, Algarni S, Alqahtani T, Jamshed W, Hussain SM, Irshad K, Ahmad H. CFD analysis of paraffin-based hybrid (Co–Au) and trihybrid (Co–Au–ZrO₂) nanofluid flow through a porous medium. *Nanotechnology Reviews*. 2024;13(1):20240024. (Q1, I.F=7.4)
206. Adel M, Khader MM, Ahmad H. MHD nanofluid flow and heat transfer caused by a stretching sheet that is heated convectively: An approximate solution using ADM. *Case Studies in Thermal Engineering*. 2024 Jun 18:104683. (Q1, I.F=6.8)
207. Hussain SM, Shams ZE, Rubbab Q, Nasir NA, Abd-Elmonem A, Abdalla NS, Qureshi MA, Ahmad H. Thermal Case Study of Magnetic Radiative Flow Impacts on Newtonian Nanofluid Over a Stretchable Plate in Absorbent: Box Approach. *Case Studies in Thermal Engineering*. 2024:104539. (Q1, I.F=6.8)
208. Ahmad H, Alnahdi AS, Bilal M, Daher Albalwi M, Faqihi AA. Energy and mass transmission through hybrid nanofluid flow passing over a spinning sphere with magnetic effect and heat source/sink. *Nanotechnology Reviews*. 2024;13(1):20230194. (Q1, I.F=7.4)
209. Hussain SM, Parveen R, Katbar NM, Rehman S, Abd-Elmonem A, Abdalla NS, Ahmad H, Qureshi MA, Jamshed W, Amjad A, Ibrahim RW. Entropy generation analysis of MHD convection flow of hybrid nanofluid in a wavy enclosure with heat generation and thermal radiation. *Reviews on Advanced Materials Science*. 2024 Jul 6;63(1):20240037. (Q2, I.F=3.6)
210. Rashid T, Jaradat MM, Yolacan E, Ahmad H. On Prime Counting Functions Using Odd $\pi(x)$ -Almost Primes. *European Journal of Pure and Applied Mathematics*. 2024 Apr 30;17(2):1146-54. (Q1, I.F=1.0)
211. Adnan, Rahman KU, Khan SU, Ahmad H. Thermal Response of Convective-Radiative Stagnation Point Flow Influenced by Advanced Ternary Nanoparticles (Al₂O₃–Cu–CuO) and Temperature Slip: Study for Elastic Surface. *BioNanoScience*. 2024 Jun 1:1-5. (Q3, I.F=3.0)
212. Mohamed AS, Gul B, Khan MS, Benabdellah G, Ahmad H, Awang MK, Abbas F. Probing the electronic structure, optical, and transport nature of lanthanide-based ternary materials: A First-principles perspective. *Chemical Physics Letters*. 2024 Jul 16;847:141366. (Q3, I.F=2.8)
213. Danladi A, Tahir A, Rezazadeh H, Adamu II, Salahshour S, Ahmad H. On the soliton structures of the space–time conformable version of $(n+1)$ -dimensional generalized Kadomtsev–Petviashvili (KP) equation. *Optical and Quantum Electronics*. 2024 Jun 1;56(7):1126. (Q2, I.F=3.3)
214. Said LB, Gul W, Mahmood Z, Bani-Fwaz MZ, Ahmad H, Khan SU, Aich W. Melting Thermal Process in Buoyancy Driven Radiated Flow of (MoS₂–SiO₂–Au)/H₂O near the Stagnant Point under Mixed Convection. *Case Studies in Thermal Engineering*. 2024 May 28:104615. (Q1, I.F=6.4)
215. Mohamed AS, Gul B, Khan MS, Ahmad B, Benabdellah G, Ahmad H, Abbas F. A systematic computational study of novel SrTrCu₃Se₄ (Tr= Al, Ga) direct band gap materials: Probing electronic, optical, and thermoelectric nature. *Chemical Physics Letters*. 2024 Jul 14:141479. (Q3, I.F=2.8)
216. Sajid T, Algarni S, Ahmad H, Alqahtani T, Jamshed W, Eid MR, Irshad K, Amjad A. Exploration of irreversibility process and thermal energy of a tetra hybrid radiative binary nanofluid focusing on solar implementations. *Nanotechnology Reviews*. 2024 Jul 4;13(1):20240040. (Q1, I.F=7.4)

217. Amin S, Ullah I, Shukat S, Kouki M, Ahmad H, Alam MM, Khan H. Lorentz force and solar energy case study on CNTs and Pollytetrafluoroethylene (PTFE) paraffin oil-based hybrid nanofluid flow through a porous divergent/convergent channel. *Case Studies in Thermal Engineering*. 2024;104378. (Q1, I.F=6.8)
218. Khan T, Rihan FA, Riaz MB, Altanji M, Zaagan AA, Ahmad H. Stochastic epidemic model for the dynamics of novel coronavirus transmission. *AIMS Mathematics*. 2024;9(5):12433-57. (Q1, I.F=2.2)
219. Gupta V, Barak MS, Ahmad H, Das S, Almohsen B. Response of Moisture and Temperature Diffusivity on an Orthotropic Hygro-thermo-piezo-elastic Medium. *Journal of Nonlinear Mathematical Physics*. 2024; 31(1):1-26. (Q2, I.F=1.4)
220. Hayat AU, Khan H, Ullah I, Ahmad H, Alam MM, Bilal M. Numerical exploration of the entropy generation in tri-hybrid nanofluid flow across a curved stretching surface subject to exponential heat source/sink. *Journal of Thermal Analysis and Calorimetry*. 2024 30:1-3. (Q2, I.F=3.0)
221. Jain R, Mehta R, Bhatnagar A, Ahmad H, Khan ZA, Ismail GM. Numerical study of heat and mass transfer of williamson hybrid nanofluid (CuO/CNT's-water) past a permeable stretching/shrinking surface with mixed convective boundary condition. *Case Studies in Thermal Engineering*. 2024:104313. (Q1, I.F=6.8)
222. Ozsahin DU, Ceesay B, Baber MZ, Ahmed N, Raza A, Rafiq M, Ahmad H, Awwad FA, Ismail EA. Multiwaves, breathers, lump and other solutions for the Heimborg model in biomembranes and nerves. *Scientific Reports*. 2024;14(1):10180. (Q1, I.F=4.6)
223. Li S, Leng Y, Atta G, Ahmad S, Ali K, Idris SA, Ahmad H. Thermal Attributes of Sodium Alginate (Na. C₆H₇O₆) based Binary and Ternary Hybrid Nanofluids under Activation Energy and Induced Magnetic Field Environment. *Case Studies in Thermal Engineering*. 2024:104449. (Q1, I.F=6.8)
224. Hassan AS, Alsadat N, Elgarhy M, Ahmad H, Nagy HF. On Estimating Multi-Stress Strength Reliability for Inverted Kumaraswamy Under Ranked Set Sampling with Application in Engineering. *Journal of Nonlinear Mathematical Physics*. 2024;31(1):30. (Q2, I.F=1.4)
225. Kumar M, Kaswan P, Kumari M, Ahmad H. Cattano Christov Double Diffusion Model for Third Grade Nanofluid Flow over Stretching Riga Plate with Entropy Generation Analysis. *Heliyon*. 2024. (Q1, I.F=4.0)
226. Hussain SM, Ahmad S, Ali K, Al Mesfer MK, Danish M, Jamshed W, Irshad K, Ahmad H. A thermal energy analysis of binary (Go-Co/H₂O) and ternary (Go-Co-Zro₂/H₂O) nanofluids based on characterization and thermal performance. *Energy & Environment*. 2024. (Q2, I.F=4.2)
227. Ozsahin DU, Khan NA, Aqeel A, Ahmad H, Alotaibi MF, Ayaz M. Mathematical modeling and dynamics of immunological exhaustion caused by measles transmissibility interaction with HIV host. *Plos one*. 2024 ;19(4):e0297476. (Q2, I.F=3.7)
228. Nawaz R, Farooq M, Rehman SU, Ismail GM, Ahmad H. Analytical Analysis of Thermal Conductivity by Laminar Flow Under the Influence of MHD Using Vogel's Model. *Acta Mechanica et Automatica*. 2024;18(3):548-63. (Q4, I.F=1.0)
229. Badshah F, Tariq KU, Zeeshan M, Ahmad H, Ismail GM, Khedher KM. On the dynamical study of the quadratic-cubic fractional nonlinear Schrödinger model in superfast fibers. *Optical and Quantum Electronics*. 2024;56(5):822. (Q2, I.F=3.0)
230. Zahran EH, Ahmad H. New Perceptions for the Soliton Solutions to the Wave Patterns Model Against its Numerical Solutions. *International Journal of Theoretical Physics*. 2024;63(5):115. (Q3, I.F=1.6)

231. Abu-Shady M, Ahmad H, Alotaibi H, Ali AR. Investigating the fractional wave function and the impact of topological defects with anisotropic plasma on the dissociation of bottomonium in the fractional non-relativistic quark model. *AIP Advances*. 2024;14(4). (Q3, I.F=1.6)
232. Hussain SM, Katbar NM, Ahmad H, Amjad A, Batool S, Abd-Elmonem A. Numerical analysis of inclined magnetic force impact on cross liquid flowing with widening shallow and heat generating. *International Journal of Modelling and Simulation*. 2024:1-2.. (Q1, ESCI)
233. Zada L, Ali N, Jamshed W, Iqbal A, Hussain SM, Ahmad H. Analyzing fractional effects on solutions of the generalized perturbed Zakharov-Kuznetsov equation using a residual series method with Caputo derivatives. *International Journal of Modelling and Simulation*. 2024:1-8. (Q1, ESCI)
234. Salman Khan M, Gul B, Ghulamallah B, Ahmad B, Alotaibi NH, Mohammad S, Ahmad H. Insights into Optoelectronic, Thermodynamic, and Thermoelectric properties of novel GePtCh (Ch= S, Se, Te) semiconductors: First-principles perspective. *Physica Scripta*. 2024. (Q2, I.F= 2.9)
235. Ahmad S, Adichwal NK, Aamir M, Shabbir J, Alsadat N, Elgarhy M, Ahmad H. An enhanced estimator of finite population variance using two auxiliary variables under simple random sampling. *Scientific Reports*. 2023;13(1):21444. (Q1, I.F=4.6)
236. Baber MZ, Abbas G, Saeed I, Sulaiman TA, Ahmed N, Ahmad H, Yusuf A, Ozsahin DU. Optical solitons for 2D-NLSE in multimode fiber with Kerr nonlinearity and its modulation instability. *Modern Physics Letters B*. 2024:2450341.
237. Zahran EH, Ahmad H, Rahaman M, Ibrahim RA. Soliton solutions in $(2+1)$ -dimensional integrable spin systems: an investigation of the Myrzakulov–Lakshmanan equation-II. *Optical and Quantum Electronics*. 2024;56(5):895. (Q2, I.F=3.0)
238. Ullah, A.Z., Azam, S., Aamer, M. et al. Effect of Eu Concentration on the Optical Properties of BaMgSiO₄ Long Persisting Phosphorous Material. *Silicon* (2024). (Q3, I.F=3.4)
239. Bacha AA, Suhail M, Awwad FA, Ismail EA, Ahmad H. Role of dietary fiber and lifestyle modification in gut health and sleep quality. *Frontiers in Nutrition*. 2024;11:1324793. (Q2, I.F=5.0)
240. Mohamed Atheeqe A., Sharief Basha S., Nune Pratyusha, C. Raghavendra Reddy, Md Nur Alam, Hijaz Ahmad, Nainaru Tarakaramu, Sreenivasulu K.; The application of cosine similarity measures with Laplacian energy to q-rung orthopair fuzzy graphs in decision-making problems. *AIP Advances*, 2024; 14 (5): 055132. (Q3, I.F=1.6)
241. Ali R, Zhang Z, Ahmad H. Exploring soliton solutions in nonlinear spatiotemporal fractional quantum mechanics equations: an analytical study. *Optical and Quantum Electronics*. 2024;56(5):1-31. (Q2, I.F=3.0)
242. Hussain M, Zaman Q, Khan L, Metawa AE, Awwad FA, Ismail EA, Wasim D, Ahmad H. Improved exponential type mean estimators for non-response case using two concomitant variables in simple random sampling. *Heliyon*. 2024;10(6). (Q1, I.F=4.0)
243. Farooq M, Khan I, Nawaz R, Ismail GM, Umar H, Ahmad H. Comparative Analysis of the Plane Couette Flow of Couple Stress Fluid Under the Influence of Magnetohydrodynamics. *East European Journal of Physics*. 2024 Jun 1(2):219-33.
244. Jalili P, Asadi Z, Shateri A, Jalili B, Ahmad H, Albalwi MD, Ganji DD. Thermal analysis of nanofluid magnetic flow on a rotating disk in the presence of radiation considering response surface method. *Modern Physics Letters B*. 2024:2450217. (Q2, I.F=1.9)

245. Waqas M, Almutiri MR, Yagoob B, Ahmad H, Bilal M. Numerical analysis of MHD tangent hyperbolic nanofluid flow over a stretching surface subject to heat source/sink. *Pramana*. 2024;98(1):27. (Q3, I.F=2.8)
246. Sharma R, Chaudhary AR, Mehta R, Tomar RS, Ozsahin DU, Askar S, Ahmad H. Power characteristics of a high-performance helix traveling wave tube. *Case Studies in Thermal Engineering*. 2024:104199. (Q1, I.F=6.8)
247. Luo, R., Faisal, K., Rezazadeh, H. *et al.* Soliton solutions of optical pulse envelope with v-time derivative. *Opt Quant Electron* **56**, 719 (2024). <https://doi.org/10.1007/s11082-023-06146-0>. (Q2, I.F=3.0)
248. Ali KK, Zafar A, Razzaq W, Ahmad H, Awwad FA, Ismail EA. The kink solitary wave and numerical solutions for conformable non-linear space–time fractional differential equations. *Results in Physics*. 2024:107423. (Q2, I.F=5.3)
249. Sadaf M, Arshed S, Akram G, Ahmad H, Askar S. Soliton solutions of thin-film ferroelectric materials equation. *Results in Physics*. 2024:107380. (Q2, I.F=5.3)
250. Ahmad H, Khan MN, Ahmad I, Alotaibi MF. A meshless method for numerical solutions of linear and nonlinear time-fractional Black-Scholes models. *AIMS Mathematics*. 2023;8(8):19677-98. (Q1, I.F=2.2)
251. Muhammad Tariq, Sotiris K. Ntouyas, Hijaz Ahmad, Asif Ali Shaikh, Bandar Almohsen, Evren Hincal. A comprehensive review of Grüss-type fractional integral inequality. *AIMS Mathematics*, 2024, 9(1): 2244-2281. (Q1, I.F=2.2)
252. Iqbal K, Muslim Raza SM, Butt MM, Ahmad H, Askar S. On exploring the generalized mixture estimators under simple random sampling and application in health and finance sector. *AIP Advances*. 2024;14(1). (Q3, I.F=1.6)
253. Alnahdi AS, Khan A, Gul T, Ahmad H. Stagnation Point Nanofluid Flow in a Variable Darcy Space Subject to Thermal Convection Using Artificial Neural Network Technique. *Arabian Journal for Science and Engineering*. 2024:1-8. (Q2, I.F=2.9)
254. Xin X, Jamshed W, Eid MR, Safdar R, Hussain SM, Ahmad H. Numerical Case Study of Cubic Autocatalysis Nanotechnology of Slanted Magnetic Force and Slippage Velocity of Three-Dimensional Carreau Nanofluid Flow. *BioNanoScience*. 2024:1-6.
255. Tighezza AM, Khan MS, Gul B, Khan G, Ahmad B, Ahmad H. Computational analysis of AlXSnSe_4 (X= Ag and Cu) quaternary compounds: Uncovering first-principles insights into electronic structure, optical, and thermoelectric nature. *Chemical Physics Letters*. 2024;841:141198. (Q3, I.F= 2.8)
256. Jan A, Shah RA, Ahmad H, Bilal H, Almohsen B. Dynamic behavior of enzyme kinetics cooperative chemical reactions. *AIP Advances*. 2024;14(3). (Q3, I.F=1.6)
257. Us Salam, W., Tariq, H., Rafeeq, R. *et al.* New solitary wave solutions to Biswas–Milovic and resonant nonlinear Schrödinger equations. *Opt Quant Electron* **56**, 744 (2024). (Q2, I.F=3.0)
258. Arshed, S., Akram, G., Sadaf, M. *et al.* Investigation of (2+1)-dimensional extended Calogero–Bogoyavlenskii–Schiff equation by generalized Kudryashov method and two variable (G'/G, 1/G)-expansion method. *Opt Quant Electron* **56**, 747 (2024). (Q2, I.F=3.0)
259. Murugan RD, Sivakumar N, Tarakaramu N, Ahmad H, Askar S. Entropy generation on MHD motion of hybrid nanofluid with porous medium in presence of thermo-radiation and ohmic viscous dissipation. *Discover Applied Sciences*. 2024 Apr 6;6(4):199.

260. Byeon H., Abisha M., Sherine V. R., Xavier G. B. A., Prema S., Govindan V., Ahmad H., Piriadarshani D., El-Morsy S., Discrete version of fundamental theorems of fractional order integration for nabla operator. *J Math Comput SCI-JM*. (2024); 34(4):381--393
261. Alnahdi AS, Khan Z, Gul T, Ahmad H. The Flow of Jeffrey Nanofluid through Cone-Disk Gap for Thermal Applications using Artificial Neural Networks. *Journal of Applied and Computational Mechanics*. 2024. (Q2, I.F=3.0)
262. Rehman S, Parveen R, Jamshed W, Prakash M, Ibrahim RW, Eid MR, Hussain SM, Ahmad H. Numerical simulation and entropy optimization of hybrid nanofluid flow in an inclined wavy enclosure subjected to thermal radiation. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*. 2024:23977914241248558. (Q2, I.F=5.0)
263. Khan MS, Gul B, Benabdellah G, Ahmad B, Karim MR, Alnaser IA, Ahmad H. First-principles study of the electronic structure, optical, thermodynamic, and thermoelectric nature in $\text{MgACu}_3\text{Se}_4$ ($A = \text{Sc}, \text{Y}$) semiconductors. *Optical and Quantum Electronics*. 2024;56(4):609. (Q2, I.F=3.0)
264. Khan MS, Gul B, Benabdellah G, Khan G, Ahmad B, Wabaidur SM, Tighezza AM, Ahmad H. The enhanced optoelectronic, and thermoelectric nature of novel KXCuS_3 ($X = \text{Zr}, \text{Hf}$) semiconductors: An inclusive ab-initio study. *Optik*. 2024:171660. (Q2, I.F=3.1)
265. Khan MS, Gul B, Ahmad B, Ullah Z, Khan G, Ifseisi AA, Ahmad H. First-principles investigation of InAgAsSe_4 ($A = \text{Ge}, \text{Sn}$) quaternary chalcogenides: Unveiling electronic, optical, and thermoelectric features. *Chemical Physics Letters*. 2024:141133. (Q3, I.F= 2.8)
266. Shahzad MH, Nadeem S, Ahmad H, Hussein M, Awan AU, Alroobaea R, Allahyani SA. Entropy-based analysis of hemodynamics in elliptical arterial flows with non-Newtonian Rabinowitsch fluid. *Modern Physics Letters B*. 2024:2450276.. <https://doi.org/10.1142/S0217984924502762> (Q2, I.F=1.9)
267. Ali A, Noor-ul-Amin NU, Ahmad H, Noor S, Sultana S, Umar H, Ahmad H, Awwad FA, Ismail EA. Synthesis and characterization of novel iron-modified geopolymers cement from laterite clay as low energy material. *AIP Advances*. 2024;14(2). (Q3, I.F=1.6)
268. Ullah K, Ishaq M, Naz MA, Rahaman M, Soomar AM, Ahmad H, Alam MN. Design of dual loop controller for boost converter based on PI controller. *AIP Advances*. 2024;14(2). (Q3, I.F=1.6)
269. Singh D, Ahmad H, Naeem YA, Zaki SH, Batoo KM, Ibrahim AA, Zazoum B, Fali KT, Al-khalid A, Ahmed BA, Elawadi A. Silicon, Carbon, Germanium, Aluminum Nitride nanocages (Si_{60} , C_{60} , Ge_{60} , $\text{Al}_{30}\text{N}_{30}$) as catalysts of N_2 reduction to NH_3 . *Silicon*. 2024:1-9. (Q3, I.F=3.4)
270. Khader MM, Ahmad H, Megahed AM. Developing some of engineering applications through numerical treatment of non-Newtonian nanofluid flow on nonlinear stretching surface with heat generation. *Case Studies in Thermal Engineering*. 2023 Oct 18:103641. (Q1, I.F=6.8)
271. Almutairi N, Saber S, Ahmad H. The fractal-fractional Atangana-Baleanu operator for pneumonia disease: stability, statistical and numerical analyses. *AIMS Mathematics*. 2023;8(12):29382-410. . (Q1, I.F=2.2)
272. Qayyum M, Ahmad E, Ahmad H, Almohsen B. New solutions of time-space fractional coupled Schrödinger systems. *AIMS Mathematics*. 2023;8(11):27033-51. (Q1, I.F=2.2)
273. Ahmad H, Ozsahin DU, Farooq U, Fahmy MA, Albalwi MD, Abu-Zinadah H. Comparative analysis of new approximate analytical method and Mohand variational transform method for the solution of wave-like equations with variable coefficients. *Results in Physics*. 2023:106623. (Q1, I.F=5.3)

274. Ahmad, H., Khokhar, R. B., Suleman, M., Tariq, M., Ntouyas, S. K., Tariboon, J.. "Some new notions of fractional Hermite-Hadamard type inequalities involving applications to the physical sciences." *Journal of Mathematics and Computer Science*, 2024;33(1):27-41.
275. Khan, T., Rihan, F.A. & Ahmad, H. Modelling the dynamics of acute and chronic hepatitis B with optimal control. *Sci Rep* **13**, 14980 (2023). <https://doi.org/10.1038/s41598-023-39582-9> (Q2, I.F=4.6)
276. Abu-Zinadah H, Alsulami MD, Ahmad H. Application of efficient hybrid local meshless method for the numerical simulation of time-fractional PDEs arising in mathematical physics and finance. *The European Physical Journal Special Topics*. 2023;1-1. (Q2, I.F=2.8)
277. Zulfarnain RM, Siddique I, Asif M, Ahmad H, Askar S, Gurmani SH. Extension of correlation coefficient based TOPSIS technique for interval-valued Pythagorean fuzzy soft set: A case study in extract, transform, and load techniques. *Plos one*. 2023 Oct 30;18(10):e0287032. (Q2, I.F=3.7)
278. Batool, F., Suleman, M.S., Demirbilek, U. et al. Studying the impacts of M-fractional and beta derivatives on the nonlinear fractional model. *Opt Quant Electron* 56, 164 (2024). (Q2, I.F=3.0)
279. Benabdellah G, toufik D, Mokhtari M, Salman Khan M, Tawfeek AM, Ahmad H. Investigating the electronic structure, elastic, magnetic, and thermoelectric nature of NiVXSc1-XSb quaternary half-Heusler alloys. *Modelling and Simulation in Materials Science and Engineering*. 2023 Dec 12.
280. Adel, M., Tariq, K.U., Ahmad, H. et al. Soliton solutions, stability, and modulation instability of the (2+1)-dimensional nonlinear hyperbolic Schrödinger model. *Opt Quant Electron* 56, 182 (2024). (Q2, I.F=3.0)
281. Ullah K, Ishaq M, Tchier F, Ahmad H, Ahmad Z. Fuzzy-based maximum power point tracking (MPPT) control system for photovoltaic power generation system. *Results in Engineering*. 2023;20:101466.
282. (Q1, I.F=5.0)
283. Butt AR, Saqib AA, Bakar A, Ozsahin DU, Ahmad H, Almohsen B. Investigating the fractional dynamics and sensitivity of an epidemic model with nonlinear convex rate. *Results in Physics*. 2023;107089. (Q1, I.F=5.3)
284. Mabrouk, S.M., Rezazadeh, H., Ahmad, H. et al. Implementation of optical soliton behavior of the space–time conformable fractional Vakhnenko–Parkes equation and its modified model. *Opt Quant Electron* 56, 222 (2024). (Q2, I.F=3.0)
285. Khan MS, Gul B, Benabdellah G, Ahmad B, Albaqami MD, Wabaidur SM, Ahmad H. Tailoring the optoelectronic, thermoelectric, and thermodynamic properties of rare-earth quaternary chalcogenides: An inclusive first-principles study. *Materials Today Communications*. 2023 Dec 12:107848. (Q2, I.F=3.8)
286. Khan MS, Gul B, Ahmad B, Tighezza AM, Ahmad H. Insight into the electronic, optical, and transport properties of novel BaLaCuX3 (X= S, Se, and Te) quaternary chalcogenides. *Journal of Solid State Chemistry*. 2023 Dec 10:124496. (Q2, I.F=3.3)
287. Ahmad S, Adichwal NK, Aamir M, Shabbir J, Alsadat N, Elgarhy M, Ahmad H. An enhanced estimator of finite population variance using two auxiliary variables under simple random sampling. *Scientific Reports*. 2023;13(1):21444. (Q1, I.F=4.6)
288. Jassim HK, Zair MY, Ahmad H, Alzaki LK, Shuaa AH, Cherif MH. Approximate analytical solutions of fractional Navier-Stokes equation. In *AIP Conference Proceedings 2023* (Vol. 2834, No. 1). AIP Publishing.

289. Nadeem M, Siddique I, Saif Ud Din I, Awwad FA, Ismail EA, Ahmad H. Impact of chemical reaction on Eyring–Powell fluid flow over a thin needle with nonlinear thermal radiation. *Scientific Reports*. 2023;13(1):21401. (Q1, I.F=4.6)
290. Az-Zo'bi EA, Afef K, Ur Rahman R, Akinyemi L, Bekir A, Ahmad H, Tashtoush MA, Mahariq I. Novel topological, non-topological, and more solitons of the generalized cubic p-system describing isothermal flux. *Optical and Quantum Electronics*. 2024;56(1):84. (Q2, I.F=3.0)
291. Ozsahin DU, Jalili B, Asadi Z, Shateri A, Jalili P, Ganji DD, Ahmad H, Nofal TA. Investigation of turbine cooling using semi-analytical methods in non-Newtonian fluid flow with porous wall. *Case Studies in Thermal Engineering*. 2023:103808. (Q1, I.F=6.8)
292. Khan MS, Ali A, Suhail M, Awwad FA, Ismail EA, Ahmad H. On the performance of two-parameter ridge estimators for handling multicollinearity problem in linear regression: Simulation and application. *AIP Advances*. 2023;13(11). (Q3, I.F=1.6)
293. Shah NN, Jan R, Ahmad H, Razak NN, Ahmad I, Ahmad H. Enhancing public health strategies for tungiasis: A mathematical approach with fractional derivative. *AIMS Bioengineering*. 2023;10(4):384-405.
294. A. Mahboob, M. Asif, R. M. Zulqarnain, I. Saddique, H. Ahmad *et al.*, "A mathematical approach for generating a highly non-linear substitution box using quadratic fractional transformation," *Computers, Materials & Continua*, 2023;77(2):2565–2578 (Q2, I.F= 3.1)
295. Khan MS, Gul B, Benabdellah G, Ahmad B, Ouladsmane M, Ahmad H. Unveiling the electronic, optical, thermoelectric, and thermodynamic properties of novel $\text{SrXCu}_3\text{Se}_4$ (X= In, Tl) materials: A systematic DFT study. *Chemical Physics Letters*. 2023:141012. (Q3, I.F= 2.8)
296. Ahmad H, Jassim HK. Solving burger's and coupled Burger's equations with caputo-fabrizio fractional operator. *Facta Universitatis, Series: Mathematics and Informatics*. 2023:241-52.
297. Gul B, Khan MS, Mohamed AS, Wafa G, Ahmad H. Unveiling the electronic structure and optical properties of two-dimensional TMDCs: first-principles study. *Optical Materials Express*. 2023;13(12):3688-702. (Q2, I.F= 2.8)
298. Zulqarnain RM, Nadeem M, Siddique I, Ahmad H, Askar S, Samar M. Heat transfer analysis of Maxwell tri-hybridized nanofluid through Riga wedge with fuzzy volume fraction. *Scientific Reports*. 2023;13(1):18238. (Q1, I.F=4.6)
299. Hussain J, Soomro MA, Dahri SA, Memon KN, Bano M, Awwad FA, Ismail EA, Ahmad H. A study of maximizing skew Brownian motion with applications to option pricing. *Journal of Radiation Research and Applied Sciences*. 2024;17(1):100732. (Q3, I.F=1.7)
300. Nazam M, Ahmad H, Waheed M, Askar S. On the Perov's type (β, F) -contraction principle and an application to delay integro-differential problem. *AIMS Mathematics*. 2023;8(10):23871-88. (Q1, I.F=2.2)
301. Zahran EH, Ahmed H, Askar S, Ozsahin DU. New impressive performances for the analytical solutions to the $(1+1)$ -dimensional van der-waals gas system against its numerical solutions. *Results in Physics*. 2023 :106667. (Q1, I.F=5.3)
302. Tariq M, Ahmad H, Shaikh AA, Ntouyas SK, Hınçal E, Qureshi S. Fractional Hermite–Hadamard-Type Inequalities for Differentiable Preinvex Mappings and Applications to Modified Bessel and q-Digamma Functions. *Mathematical and Computational Applications*. 2023; 28(6):108. (ESCI, I.F=1.9)

303. Zulqarnain, R.M., Nadeem, M., Siddique, I. *et al.* Heat transfer analysis of Maxwell tri-hybridized nanofluid through Riga wedge with fuzzy volume fraction. *Sci Rep* **13**, 18238 (2023). (Q1, I.F=4.6) <https://doi.org/10.1038/s41598-023-45286-x>
304. Farooq M, Ahmad H, Ozsahin DU, Khan A, Nawaz R, Almohsen B. A study of heat and mass transfer flow of a variable viscosity couple stress fluid between inclined plates. *Modern Physics Letters B*. 2023 :2350231. (Q2, I.F=1.9)
305. Nawaz R, Sumera, Zada L, Ayaz M, Ahmad H, Awwad FA, Ismail EA. Rational approximation for solving Fredholm integro-differential equations by new algorithm. *Open Physics*. 2023;21(1):20220181. (Q3, I.F=1.9)
306. Vaidya, H., Prasad, K.V., Tripathi, D. *et al.* Viscoplastic Hybrid Nanofluids Flow Through Vertical Stenosed Artery. *BioNanoSci.* (2023). <https://doi.org/10.1007/s12668-023-01213-y>. (Q3, I.F=3.0)
307. Barak MS, Ahmad H, Kumar R, Kumar R, Gupta V, Awwad FA, Ismail EA. Behavior of higher-order MDD on energy ratios at the interface of thermoelastic and piezothermoelastic mediums. *Scientific Reports*. 2023;13(1):17170. (Q1, I.F=4.6)
308. Ullah K, Ishaq M, Tchier F, Ahmad H, Ahmad Z. Fuzzy-based maximum power point tracking (MPPT) control system for photovoltaic power generation system. *Results in Engineering*. 2023;20:101466. (Q1, I.F=5.0)
309. Islam SR, Ahmad H, Khan K, Wang H, Akbar MA, Awwad FA, Ismail EA. Stability analysis, phase plane analysis, and isolated soliton solution to the LGH equation in mathematical physics. *Open Physics*. 2023 Oct 30;21(1):20230104. . (Q3, I.F=1.9)
310. Raza Q, Wang X, Akbar Qureshi MZ, Siddique I, Ahmad M, Ali B, Ahmad H, Tchier F. Significance role of dual porosity and interfacial nanolayer mechanisms on hybrid nanofluids flow: A symmetry flow model. *Modern Physics Letters B*. 2023 Oct 6:2450022. (Q2, I.F=1.9)
311. Jain R, Mehta R, Sharma MK, Mehta T, Ahmad H, Tchier F. Numerical analysis of heat and mass transport of hybrid nanofluid over an extending plate with inclined magnetic field in presence of Soret and dufour Effect. *Modern Physics Letters B*. 2023 Oct 6:2450037. (Q2, I.F=1.9)
312. Haq IU, Ali N, Ahmad H, Sabra R, Albalwi MD, Ahmad I. Mathematical analysis of a Corona virus model with Caputo, Caputo-Fabrizio-Caputo fractional and Atangana-Baleanu-Caputo differential operators. *International Journal of Biomathematics*. 2023. (Q3, I.F=2.2)
313. Amur AA, Memon KN, Shah SF, Amur M, Ahmad H, Siddiqui AM, Ozsahin DU, Askar S. The hydrodynamics of gravity-driven vessel drainage of third order fluid using perturbation method. *Heliyon*. 2023. (Q1, I.F=4.0)
314. Jalili P, Mirzaei A, Jalili B, Shateri A, Ganji DD, Ozsahin DU, Ahmad H. Thermal analysis of transverse fluid flow in a gradient porous media with the exponentially boundary conditions. *Modern Physics Letters B*. 2023 Oct 21:2350229. (Q2, I.F=1.9)
315. Khan H, Aslam M, Rajpar AH, Chu YM, Etemad S, Rezapour S, Ahmad H. A New Fractal-Fractional Hybrid Model for Studying Climate Change on Coastal Ecosystems from the Mathematical Point of View. *Fractals*. 2023. (Q1, I.F= 4.7)
316. Caliskan A, Zulqarnain RM, Güdekli E, Siddique I, Ahmad H, Askar S. Structural properties of a new class of stellar structures in modified teleparallel gravity. *Frontiers in Astronomy and Space Sciences*. 2023;10:1203777. (Q2, I.F= 3.0)

317. Zahran EH, Ibrahim RA, Ozsahin DU, Ahmad H, Shehata MS. New diverse exact optical solutions of the three dimensional Zakharov–Kuznetsov equation. *Optical and Quantum Electronics*. 2023;55(9):817. (Q2, I.F=3.0)
318. Zulfiqar H, Aashiq A, Tariq KU, Ahmad H, Almohsen B, Aslam M, Rehman HU. On the solitonic wave structures and stability analysis of the stochastic nonlinear Schrödinger equation with the impact of multiplicative noise. *Optik*. 2023;289:171250. (Q2, I.F=3.1)
319. Jagadeesh S, Chenna Krishna Reddy M, Tarakaramu N, Ahmad H, Askar S, Shukhratovich Abdullaev S. Convective heat and mass transfer rate on 3D Williamson nanofluid flow via linear stretching sheet with thermal radiation and heat absorption. *Scientific Reports*. 2023;13(1):9889. (Q1, I.F=4.6)
320. Esen H, Ozdemir N, Secer A, Bayram M, Sulaiman TA, Ahmad H, Yusuf A, Albalwi MD. On the soliton solutions to the density-dependent space time fractional reaction–diffusion equation with conformable and M-truncated derivatives. *Optical and Quantum Electronics*. 2023;55(10):923. (Q2, I.F=3.0)
321. Latha KB, Gnaneswara Reddy M, Tripathi D, Bég OA, Kuharat S. Computation of stagnation coating flow of electro-conductive ternary Williamson hybrid **GO– AU– Co3O4/EO** nanofluid with a Cattaneo-Christov heat flux model and magnetic induction. *Scientific Reports*. 2023;13. (Q1, I.F=4.6)
322. Shehata MS, Ahmad H, Zahran EH, Askar S, Ozsahin DU. Isomorphic shut form valuation for quantum field theory and biological population models. *Open Physics*. 2023;21(1):20220252. (Q3, I.F=1.9)
323. Megahid SF, Abouelregal AE, Ahmad H, Fahmy MA, Abu-Zinadah H. A generalized More-Gibson-Thomson heat transfer model for the study of thermomagnetic responses in a solid half-space. *Results in Physics*. 2023:106619. (Q1, I.F=5.3)
324. Vijay MM, Sunil J, Vincy VA, IjazKhan M, Abdullaev SS, Eldin SM, Govindan V, Ahmad H, Askar S. Underwater wireless sensor network-based multihop data transmission using hybrid cat cheetah optimization algorithm. *Scientific Reports*. 2023;13(1):10810. (Q1, I.F=4.6)
325. Bashir S, Dawood A, Hayat A, Askar S, Ahmad Z, Ahmad H, Khan MA. Laser-assisted plasma formation and ablation of Cu in a controlled environment. *Heliyon*. 2023;9(8). (Q1, I.F=4.0)
326. Zahran EH, Ibrahim RA, Ozsahin DU, Ahmad H, Shehata MS. New diverse exact optical solutions of the three dimensional Zakharov–Kuznetsov equation. *Optical and Quantum Electronics*. 2023;55(9):817. (Q2, I.F=3.0)
327. Gul B, Khan MS, Aasim M, Khan G, Ahmad H, Thounthong P. First-principles study of the optoelectronic and thermoelectric properties of lead-free ASnI3 (A= K, Rb, and Cs) novel halide perovskites. *Physica B: Condensed Matter*. 2023 Sep 12:415316. (Q2, I.F=2.8)
328. Alsadat N, Marei GA, Elgarhy M, Ahmad H, Almetwally EM. Bayesian and non-Bayesian analysis with MCMC algorithm of stress-strength for a new two parameters lifetime model with applications. *AIP Advances*. 2023;13(9). (Q3, I.F=1.6)
329. Gul B, Salman Khan M, Aasim M, Ifseisi AA, Khan G, Ahmad H. First-Principles Investigation of Novel Alkali-Based Lead-Free Halide Perovskites for Advanced Optoelectronic Applications. *ACS Omega*. 2023 Aug 25. (Q2, I.F=4.1)
330. Gul B, Fayz-Al-Asad M, Khan MS, Rahaman M, Periyasami G, Ahmad H. Insight into the Optoelectronic Nature and Mechanical Stability of Binary Chalcogenides: A First-Principles Study. *ChemElectroChem*. 2023:e202300368. (Q2, I.F=4.0)

331. Tlili S, Kaddour A, Osra OA, Bayram M, Atif M, Ahmad H, Menni Y. Enhancing thermal performance and sustainability parabolic trough concentrator systems in Djelfa's solar-integrated urban design. *Thermal Science*. 2023;27(4 Part B):3251-60. (Q3, I.F=1.7)
332. Kaid N, Bayram M, Asad J, Atif M, Alhassan MS, Ameer H, Ahmad H, Menni Y. Simulation of newly designed vortex generators for optimizing fluid mixing efficiency in compact static mixers with single-exit configuration. *Thermal Science*. 2023;27(4 Part B):3337-47. (Q3, I.F=1.7)
333. Mahboob A, Hussaain T, Abbas T, Bonyah E, Khan MS, Almohsen B, Fatima M, Ahmad H, Ahmad Z. Minimal CSS-supplemented subgroups of finite groups. *AIP Advances*. 2023;13(9). (Q3, I.F= 1.6)
334. Alsadat N, Elgarhy M, Tolba AH, Elwehidy AS, Ahmad H, Almetwally EM. Classical and Bayesian estimation for the extended odd Weibull power Lomax model with applications. *AIP Advances*. 2023;13(9). (Q3, I.F= 1.6)
335. Alsadat N, Nagarjuna VB, Hassan AS, Elgarhy M, Ahmad H, Almetwally EM. Marshall–Olkin Weibull–Burr XII distribution with application to physics data. *AIP Advances*. 2023;13(9). (Q3, I.F= 1.6)
336. Gul B, Salman Khan M, A. Ifseisi A, Ahmad H. First-principles study of potassium-based novel chalcogenide materials for optoelectronic and thermoelectric devices. *Physica Scripta*. 2023. (Q2, I.F= 2.9)
337. Kodamasingh, B., Tariq, M., Sahoo, S. K., Ahmad, H. & Nasir, J. (2023). Hyperbolic type harmonically convex function and integral inequalities. *TWMS Journal of Applied and Engineering Mathematics*, 13(4), 1617-1630.
338. Alsadat N, Elgarhy M, Hassan AS, Ahmad H, Abd Eisa EH. A new extension of linear failure rate distribution with estimation, simulation, and applications. *AIP Advances*. 2023;13(10). (Q3, I.F= 1.6)
339. Gul B, Khan MS, Ahmad B, Rahaman M, Lolika PO, Wafa G, Ahmad H. First-principles study of the electronic, optical, and transport properties of novel transition-metals dichalcogenides. *Materials Advances*. 2023. <https://doi.org/10.1039/D3MA00398A> (Q2, I.F=5.0)
340. Mahboob A, Asif M, Zulqarnain RM, Siddique I, Ahmad H, Askar S, Pau G. An Innovative Technique for Constructing Highly Non-Linear Components of Block Cipher for Data Security against Cyber Attacks. *Computer Systems Science & Engineering*. 2023;47(2). (Q1, I.F=2.2)
341. Kumar R, Pathania V, Gupta V, Barak MS, Ahmad H. Thermoelastic Modeling with Dual Porosity Interacting with an Inviscid Liquid. *Journal of Applied and Computational Mechanics*. 2023. (Q2, I.F=3.0)
342. Gul B, Salman Khan M, Khan G, Ahmad H. Ab-initio study about the electronic structure, optical, and transport properties of novel AlIn_2O_4 (A= Ca, Sr, and Na) materials. *Modelling and Simulation in Materials Science and Engineering*. 2023. (Q3, I.F=1.8)
343. Bano A, Dawood A, Rida, Saira F, Malik A, Alkholfief M, Ahmad H, Khan MA, Ahmad Z, Bazighifan O. Enhancing catalytic activity of gold nanoparticles in a standard redox reaction by investigating the impact of AuNPs size, temperature and reductant concentrations. *Scientific Reports*. 2023;13(1):12359. (Q1, I.F=4.6)
344. Khan SU, Khan A, Ullah A, Ahmad S, Awwad FA, Ismail EA, Maitama S, Umar H, Ahmad H. Solving nth-order integro-differential equations by novel generalized hybrid transform. *European Journal of Pure and Applied Mathematics*. 2023;16(3):1940-55. (Q3, I.F=0.7)
345. Gul B, Khan MS, Ahmad B, Periyasami G, Rahaman M, Ahmad H. Exploring the electronic, optical, and thermoelectric properties of Ba_2GeX_4 (X= S, and Se) novel chalcogenides. *Journal of Solid State Chemistry*. 2023;326:124243. (Q2, I.F=3.3)

346. Manvi BK, Kerur SB, Tawade JV, Nieto JJ, Ningonda S, Sankeshwari HA, Govindan V. MHD Casson nanofluid boundary layer flow in presence of radiation and non-uniform heat source/sink. *Mathematical Modelling and Control*. 2023;3(3):152-67.
347. El Houda NN, Mohammed B, Essaid B, Ahmad I, Ahmad H, Askar S. Multigrid Methods for The Solution of Nonlinear Variational Inequalities. *European Journal of Pure and Applied Mathematics*. 2023;16(3):1956-69. (Q3, I.F=0.7)
348. Murtaza S, Ahmad Z, Daher Albalwi M, Akhtar Z, Khan MA, Ahmad H, Baleanu D. Caputo Time Fractional Model Based on Generalized Fourier's and Fick's Laws for Brinkman-type Fluid: Exact Solution via Integral Transform. *Fractals*. 2023. (Q1, I.F= 4.7)
349. Moaaz O, Muhib A, Ahmad H, Muhsin W. Iterative Criteria for Oscillation of Third-Order Delay Differential Equations with p-Laplacian Operator. *Mathematica Slovaca*. 2023;73(3):703-12. (Q2, I.F= 1.6)
350. Asmat F, Asmat H, Askar S, Ahmad H, Khan MI. On weighted vertex and edge Mostar index for trees and cacti with fixed parameter. *European Journal of Pure and Applied Mathematics*. 2023;16(3):1794-808. (Q3, I.F=0.7)
351. Zil-E-Huma, Butt, A. R., Raza, N., Ahmad, H., Ozsahin, D. U., & Tchier, F. (2023). Different solitary wave solutions and bilinear form for modified mixed-KdV equation. *Optik*, 171031. (Q2, I.F=3.1)
352. Hashemi MS, Mirzazadeh M, Ahmad H. A reduction technique to solve the $(2+1)$ -dimensional KdV equations with time local fractional derivatives. *Optical and Quantum Electronics*. 2023;55(8):721. (Q2, I.F=3.0)
353. Ullah I, Ullah A, Ahmad S, Ahmad H, Nofal TA. A survey of KdV-CDG equations via nonsingular fractional operators. *AIMS Mathematics*. 2023;8(8):18964-81. (Q1, I.F=2.2)
354. Adel M, Khader MM, Ahmad H, Assiri TA. Approximate analytical solutions for the blood ethanol concentration system and predator-prey equations by using variational iteration method. *AIMS Mathematics*. 2023;8(8):19083-96. (Q1, I.F=2.2)
355. Siddique I, Adrees R, Ahmad H, Askar S. MHD Free convection flows of Jeffrey fluid with Prabhakar-like fractional model subject to generalized thermal transport. *Scientific Reports*. 2023;13(1):9289. (Q1, I.F=4.6)
356. Vijay MM, Sunil J, Vincy VA, IjazKhan M, Abdullaev SS, Eldin SM, Govindan V, Ahmad H, Askar S. Underwater wireless sensor network-based multihop data transmission using hybrid cat cheetah optimization algorithm. *Scientific Reports*. 2023;13(1):10810. (Q1, I.F=4.6)
357. Kara H, Budak H, Etemad S, Rezapour S, Ahmad H, Kaabar MK. A Study on the New Class of Inequalities of Midpoint-Type and Trapezoidal-Type Based on Twice Differentiable Functions with Conformable Operators. *Journal of Function Spaces*. 2023;2023. (Q2, I.F=1.9)
358. Yahya AU, Siddique I, Salamat N, Ahmad H, Rafiq M, Askar S, Abdal S. Numerical study of hybridized Williamson nanofluid flow with TC4 and Nichrome over an extending surface. *Open Physics*. 2023;21(1):20220246. (Q3, I.F=1.9)
359. Qayyum M, Ahmad E, Tauseef Saeed S, Ahmad H and Askar S (2023) Homotopy perturbation method-based soliton solutions of the time-fractional $(2+1)$ -dimensional Wu–Zhang system describing long dispersive gravity water waves in the ocean. *Frontiers in Physics*. 11:1178154. (Q2, I.F=3.1)

360. Khaliq S, Ahmad S, Ullah A, Ahmad H, Saifullah S, Nofal TA. New waves solutions of the $(2+1)$ -dimensional generalized Hirota–Satsuma–Ito equation using a novel expansion method. *Results in Physics*. 2023;106450. (Q1, I.F=5.3)
361. Alsadat N, Imran M, Tahir MH, Jamal F, Ahmad H, Elgarhy M. Compounded Bell-G class of statistical models with applications to COVID-19 and actuarial data. *Open Physics*. 2023;21(1):20220242. (Q3, I.F=1.9)
362. Ghafoor A, Sardar S, Ullah A, Hussain M, Ahmad H, Awwad FA, Ismail EA. Simulations of the one and two dimensional nonlinear evolutionary partial differential equations: A numerical study. *Results in Physics*. 2023;106466. <https://doi.org/10.1016/j.rinp.2023.106466> (Q1, I.F=5.3)
363. Khan N, Ayaz S, Siddique I, Ahmad H, Askar S, Zulqarnain RM. Sustainable practices to reduce environmental impact of industry using interaction aggregation operators under interval-valued Pythagorean fuzzy hypersoft set. *AIMS Mathematics*. 2023;8(6):14644-83. (Q1, I.F=2.2)
364. Zulqarnain RM, Siddique I, Mahboob A, Ahmad H, Askar S, Gurmani SH. Optimizing construction company selection using einstein weighted aggregation operators for q-rung orthopair fuzzy hypersoft set. *Scientific Reports*. 2023;13(1):6511. (Q1, I.F=4.6)
365. Iqbal T, Bokhary SA, Abbas G, Baili J, Ahmad H, Tabassum H, Murtaza S, Ahmad Z, Zhang XZ. Wiener Polarity and Wiener Index of Double Generalized Petersen Graph. *Journal of King Saud University-Science*. 2023;102680. (Q2, I.F=3.8)
366. Rezazadeh, H., Zabihi, A., Davodi, A. G., Ansari, R., Ahmad, H., & Yao, S. W. (2023). New optical solitons of double Sine-Gordon equation using exact solutions methods. *Results in Physics*, 106452. (Q1, I.F=5.3)
367. Pashrashid A, Gómez S CA, Mirhosseini-Alizamini SM, Motevalian SN, Albalwi MD, Ahmad H, Yao SW. On traveling wave solutions to Manakov model with variable coefficients. *Open Physics*. 2023;21(1):20220235. (Q3, I.F=1.9)
368. Ali B, Siddique I, Ahmad H, Askar S. Influence of nanoparticles aggregation and Lorentz force on the dynamics of water-titanium dioxide nanoparticles on a rotating surface using finite element simulation. *Scientific Reports*. 2023;13(1):4702. (Q1, I.F=4.6)
369. Faisal K, Abbagari S, Pashrashid A, Houwe A, Yao SW, Ahmad H. Pure-cubic optical solitons to the Schrödinger equation with three forms of nonlinearities by Sardar subequation method. *Results in Physics*. 2023;106412. (Q1, I.F=5.3)
370. Kara H, Budak H, Etemad S, Rezapour S, Ahmad H, Kaabar MK. A Study on the New Class of Inequalities of Midpoint-Type and Trapezoidal-Type Based on Twice Differentiable Functions with Conformable Operators. *Journal of Function Spaces*. 2023;2023. (Q2, I.F=1.9)
371. Khan, N., Ahmad, Z., Shah, J. Murtaza, S., Albalwi, M. D., Ahmad, H., Baili, J., & Yao, S-W., (2023). Dynamics of chaotic system based on circuit design with Ulam stability through fractal-fractional derivative with power law kernel. *Scientific Reports* 13, 5043. (Q1, I.F=4.6)
372. Nosheen, A., Awan, K. M., Khan, K. A., Ahmad, H., & Qadeer, A. T., (2023). Hardy-Leindler type inequalities for multiple integrals on time scales. *Mathematica Slovaca*, 73 (2) 353-368. (Q2, I.F= 1.6)
373. Obalalu AM, Ahmad H, Salawu SO, Olayemi OA, Odetunde CB, Ajala AO, Abdulraheem A. Improvement of mechanical energy using thermal efficiency of hybrid nanofluid on solar aircraft wings:

- an application of renewable, sustainable energy. *Waves in Random and Complex Media*. 2023;1-30. (Q2, I.F=4.0)
374. Bharti U, Vaishnav PK, Yao SW, Ahmad H. The Behavior of Shear Waves in the Composite Multi-Material Structure with the Periodic Asymmetric Surfaces. *Symmetry*. 2023;15(2):491. (Q2, I.F=2.7)
 375. Murtaza S, Ahmad Z, Ali IE, Akhtar Z, Tchier F, Ahmad H, Yao SW. Analysis and Numerical Simulation of Fractal-Fractional Order Non-Linear Couple Stress Nanofluid with Cadmium Telluride Nanoparticles. *Journal of King Saud University-Science*. 2023;102618. (Q2, I.F=3.8)
 376. Blouhi T, Meghna Mustafa, Ahmad H, Thounthong P. Existence of coupled systems for impulsive of Hilfer fractional stochastic equations with the measure of noncompactness. *Filomat*. 2023;37(2):531-550 (Q2, I.F=0.8)
 377. Haq, I. U., Ali, N., & Ahmad, H. (2022). Analysis of a chaotic system using fractal-fractional derivatives with exponential decay type kernels. *Mathematical Modelling and Control*, 2(4), 185-199. (WOS,ESCI)
 378. Yalçinkaya I, El-Metwally H, Tollu DT, Ahmad H. Behavior of Solutions to the Fuzzy Difference Equation. *Mathematical Notes*. 2023;113(1-2):292-302. (Q4, I.F=0.6)
 379. Ali U, Ahmad H, Abu-Zinadah H. Soliton solutions for nonlinear variable-order fractional Korteweg–de Vries (KdV) equation arising in shallow water waves. *Journal of Ocean Engineering and Science*. 2022. <https://doi.org/10.1016/j.joes.2022.06.011> (Q1, I.F=7.1)
 380. Tahrour F, Ahmad H, Ameer H, Saeed T, Abu-Zinadah H, Menni Y. 3D numerical study and comparison of thermal-flow performance of various annular finned-tube designs. *Journal of Ocean Engineering and Science*. 2022. <https://doi.org/10.1016/j.joes.2022.02.009> (Q1, I.F=7.1)
 381. Ahmad I, Ahmad H, Inc M. Performance of meshless method of lines for the solution of the generalized seventh-order Korteweg-de Vries equation having applications in fluid mechanics. *Thermal Science*. 2023;27(Spec. issue 1):383-8. (Q3, I.F=1.7)
 382. Almutairi B, Ahmad I, Almohsen B, Ahmad H, Ozsahin DU. Numerical simulations of time-fractional PDES arising in mathematics and physics using the local Meshless differential quadrature method. *Thermal Science*. 2023;27(Spec. issue 1):263-72. (Q3, I.F=1.7)
 383. Rebhi R, Ahmad H, Zhao YH, Menni Y, Lorenzini G. Numerical assessment of an air-heat exchanger channel with staggered attached rectangular baffles and in-line detached square fins. *Thermal Science*. 2023;27(Spec. issue 1):343-51. (Q3, I.F=1.7)
 384. Sari HZ, Aliane K, Zhao YH, Ahmad H, Menni Y, Lorenzini G. Effect of obstacles on turbulent flows in a rectangular channel from their front sides. *Thermal Science*. 2023;27(Spec. issue 1):333-41. (Q3, I.F=1.7)
 385. Nawaz R, Farid S, Ayaz M, Ahmad I, Ahmad H, Jarasthitikulchai N, Sudsutad W. Simulation of fractional differential difference equation via residual power series method. *Thermal Science*. 2023;27(Spec. issue 1):111-119. (Q3, I.F=1.7)
 386. Nawaz R, Ashraf R, Zada L, Ahmad H, Farooq M, Ahmad I, Tearnbucha C, Sudsutad W. New approximate solutions to time fractional order partial differential equations optimal auxiliary function method. *Thermal Science*. 2023;27(Spec. issue 1):9-17. (Q3, I.F=1.7)
 387. Irshad H, Shakeel M, Ahmad I, Ahmad H, Tearnbucha C, Sudsutad W. Simulation of generalized time fractional Gardner equation utilizing in plasma physics for non-linear propagation of ion-acoustic waves. *Thermal Science*. 2023;27(Spec. issue 1):121-8. (Q3, I.F=1.7)

388. Ahsan M, Khan AA, Dinibutun S, Ahmad I, Ahmad H, Jarasthitikulchai N, Sudsutad W. The Haar wavelets based numerical solution of Reccati equation with integral boundary condition. *Thermal Science*. 2023;27(Spec. issue 1):93-100. (Q3, I.F=1.7)
389. Shakeel M, Khan MN, Ahmad I, Ahmad H, Jarasthitikulchai N, Sudsutad W. Local meshless collocation scheme for numerical simulation of space fractional PDE. *Thermal Science*. 2023;27(Spec. issue 1):101-9. (Q3, I.F=1.7)
390. Hassoun ZS, Aliane K, Akgul A, Jarrar R, Asad J, Menni Y, Ahmad H. Numerical investigation of the interaction between the roughness and the triangular obstructions in a rectangular channel. *Thermal Science*. 2023;27(Spec. issue 1):365 – 372. (Q3, I.F=1.7)
391. Wang F, Shah AN, Ahmad I, Ahmad H, Alam KM, Thounthong P. Solution of burgers' equation appears in fluid mechanics by multistage optimal homotopy asymptotic method. *Thermal Science*. 2023;27(Spec. issue 1):87-92. (Q3, I.F=1.7)
392. Rezapour S, Etemad S, Asamoah JK, Ahmad H, Nonlaopon K. A mathematical approach for studying the fractal-fractional hybrid Mittag-Leffler model of malaria under some control factors. *AIMS Mathematics*. 2023;8(2):3120-62. (Q1, I.F=2.2)
393. Farman M, Sarwar R, Askar S, Ahmad H, Sultan M, Akram MM. Fractional order model to study the impact of planting genetically modified trees on the regulation of atmospheric carbon dioxide with analysis and modeling. *Results in Physics*. 2023:106409. (Q1, I.F=5.3)
394. Adel M, Ramadan ME, Ahmad H, Adel M, Ramadan ME, Ahmad H, Botmart T. Correction: Sobolev-type nonlinear Hilfer fractional stochastic differential equations with noninstantaneous impulsive. *AIMS Mathematics*. 2023;8(4):9185-6. (Q1, I.F=2.2)
395. Muhammad T, Ahmad H, Farooq U, Akgül A. Computational Investigation of Magnetohydrodynamics Boundary of Maxwell Fluid Across Nanoparticle-Filled Sheet. *Al-Salam Journal for Engineering and Technology*. 2023 Apr 7;2(2):88-97.
396. Mebrouki A, Rebhi R, Rahman MH, Lorenzini G, Menni Y, Ameer H, Ahmad H. Thermosolutal Convection of Natural and Anti-Natural Solutions Through an Angled Cavity Under Cross Gradients in Temperature and Concentration. *CFD Letters*. 2023 Mar 16;15(5):97-119.
397. Fioranelli M, Ahmad H, Rocchia MG, Beesham A, Shah Z. A mathematical model for inducing T-cells around tumor cells by using exchanged waves between graphene sheets interior and exterior of body. *AIMS Biophysics*. 2022;9(4):388-400. (ESCI)
398. Haq IU, Ali N, Ahmad H. Analysis of a chaotic system using fractal-fractional derivatives with exponential decay type kernels. *Mathematical Modelling and Control*. 2022;2(4):185-99.
399. Bensilakhal S, Rebhi R, Hadidi N, Lorenzini G, Kerchiche Y, Menni Y, Ameer H, Ahmad H. Bi-stability Study of Double Diffusive Convection Using the Carreau-Yasuda Model in a Shallow Horizontal Porous Layer Filled with a Non-Newtonian Fluid. *Journal of Advanced Research in Fluid Mechanics and Thermal Science*. 2023 Jan 15;101(1):137-59. (Q3, I.F=1.7)
400. Salmi M, Afif B, Akgul A, Jarrar R, Shanak H, Menni Y, Ahmad H, Asad J. Turbulent flows around rectangular and triangular turbulators in baffled channels: A Computational Analysis. *Thermal Science*. 2022 Nov 16;26. (Q3, I.F=1.7)

401. Khan MS, Gul B, Khan G, Ahmad H, Almohsen B. The physical properties of RbAuX ($X = \text{S, Se, Te}$) novel chalcogenides for advanced optoelectronic applications: An ab-initio study. *Computational Materials Science*. 2023;221:112098. (Q3, I.F=3.3)
402. Naima K, Bousbaa H, Ahmad H, Al-Bahrani M, Tarabet L, Menni Y, Lorenzini G. A comparative assessment of combustion behavior and emissions characteristics of DI diesel engine fueled with waste plastic oil and eucalyptus biofuel for sustainable development applications. *International Journal of Low-Carbon Technologies*. 2022;17:1399-405. (Q2, I.F=2.3)
403. Derdour A, Bouarfa S, Kaid N, Baili J, Al-Bahrani M, Menni Y, Ahmad H. Assessment of the impacts of climate change on drought in an arid area using drought indices and Landsat remote sensing data. *International Journal of Low-Carbon Technologies*. 2022;17. (Q2, I.F=2.3)
404. Yalçinkaya İ, Tollu DT, Khastan A, Ahmad H, Botmart T. Qualitative behavior of a higher-order fuzzy difference equation. *AIMS Mathematics*. 2023;8(3):6309-22. (Q1, I.F=2.2)
405. Ahmad H, Khan TA, Stanimirovic PS, Shatanawi W, Botmart T. New approach on conventional solutions to nonlinear partial differential equations describing physical phenomena. *Results in Physics*. 2022;41:105936. (Q1, I.F=5.3)
406. Uygun N, Ahmad H, Botmart T. The effects of Hall parameter on the MHD fluid flow and heat transfer induced by uniform radial electric field due to a shrinking rotating disk. *Case Studies in Thermal Engineering*. 2022;37:102222. (Q1, I.F=6.8)
407. Adel M, Ramadan ME, Ahmad H, Botmart T. Sobolev-type nonlinear Hilfer fractional stochastic differential equations with noninstantaneous impulsive. *AIMS Mathematics*. 2022; 7(11):20105-25. (Q1, I.F=2.2)
408. Abouelregal AE, Ahmad H, Aldahlan MA, Zhang XZ. Nonlocal magneto-thermoelastic infinite half-space due to a periodically varying heat flow under Caputo–Fabrizio fractional derivative heat equation. *Open Physics*. 2022;20(1):274-88. (Q3, I.F=1.9)
409. Zhang J, Wang F, Tamoor M, Kamran M, Farooq A, Rehman S, Aljohani AS, Khan I, Alkhatib S, Ahmad H. Influence of chemical reaction on MHD Newtonian fluid flow on vertical plate in porous medium in conjunction with thermal radiation. *Open Physics*. 2022;20(1):302-12. (Q3, I.F=1.9)
410. Hashemi MS, Partohaghighi M, Ahmad H. New mathematical modellings of the Human Liver and Hearing Loss systems with fractional derivatives. *International Journal of Biomathematics*. 2022. <https://doi.org/10.1142/S1793524522500681> (Q3, I.F=2.2)
411. Faniran TS, Adewole MO, Ahmad H, Abdullah FA. Dynamics of tuberculosis in HIV–HCV co-infected cases. *International Journal of Biomathematics*. 2022;22:50091. <https://doi.org/10.1142/S1793524522500917> (Q3, I.F=2.2)
412. Brahimi M, Inc M, Ahmad H, Menni Y, Lorenzini G. Synthesis of a radiating elements for side lobe reduction using a hybrid beamforming technique based on non-linear programming and stochastic optimization. *Traitement du Signal*. 2022; 39(3): 771-780 (Q3, I.F= 1.9)
413. Raja Dhas JE, Savio Lewise KA, Kumar KN, Raja V, AL-bonsrulah HA, Ahmad H, Yao SW, Al-Bahrani M. Effect of coconut shell nanopowder reinforcement in the development of palm fiber composites. *Frontiers in Materials*. 2022;9:86011. (Q2, I.F= 3.2)

414. Gul B, Khan MS, Khan G, Ahmad H, Thounthong P, Khattak SA, Zulfiqar S, Khan T. First-principles calculations to investigate the optoelectronic, and thermoelectric nature of Zinc based group II-VI direct band semiconductors. *Optik*. 2022;170143. (Q2, I.F=3.1)
415. Benkerrouche A, Etemad S, Souid MS, Rezapour S, Ahmad H, Botmart T. Fractional variable order differential equations with impulses: A study on the stability and existence properties. *AIMS Mathematics*. 2023;8(1):775-791. (Q1, I.F=2.2)
416. Akbar M, Nawaz R, Ayaz M, Ahsan S, Ahmad H. Analytical Approach to Approximate the Solution of Volterra and Fredholm Integral Equations. *International Journal of Applied and Computational Mathematics*. 2022;8(5):1-10. (ESCI)
417. Rezapour S, Etemad S, Avcı İ, Ahmad H. A Study on the Fractal-Fractional Epidemic Probability-Based Model of SARS-CoV-2 Virus along with the Taylor Operational Matrix Method for Its Caputo Version. *Journal of Function Spaces*. 2022;2022. (Q2, I.F=1.9)
418. Etemad S, Tellab B, Zeb A, Ahmad S, Zada A, Rezapour S, Ahmad H, Botmart T. A mathematical model of transmission cycle of CC-Hemorrhagic fever via fractal-fractional operators and numerical simulations. *Results in Physics*. 2022;105800. <https://doi.org/10.1016/j.rinp.2022.105800> (Q1, I.F=5.3)
419. Adel M, Sweilam NH, Khader MM, Ahmed SM, Ahmad H, Botmart T. Numerical simulation using the non-standard weighted average FDM for 2Dim variable-order Cable equation. *Results in Physics*. 2022;105682. <https://doi.org/10.1016/j.rinp.2022.105682> (Q1, I.F=5.3)
420. Farooq M, Ahmad Z, Ahmad H, Zeb M, Aouaini F, Ayaz M. Homotopy analysis methods with applications to thin-film flow of a magnetohydrodynamic-modified second grade fluid. *Modern Physics Letters B*. 2022;2150617. <https://doi.org/10.1142/S021798492150617X> (Q2, I.F=1.9)
421. Haq IU, Ali N, Ahmad H, Nofal TA. On the fractional-order mathematical model of COVID-19 with the effects of multiple non-pharmaceutical interventions. *AIMS Mathematics*. 2022;7(9): 16017-36. (Q1, I.F=2.2)
422. Rezapour S, Asamoah JK, Hussain A, Ahmad H, Banerjee R, Etemad S, Botmart T. A theoretical and numerical analysis of a fractal-fractional two-strain model of meningitis. *Results in Physics*. 2022;105775. <https://doi.org/10.1016/j.rinp.2022.105775> (Q1, I.F=5.3)
423. Tariq M, Ahmad H, Sahoo SK, Kashuri A, Nofal TA, Hsu CH. Inequalities of Simpson-Mercer-type including Atangana-Baleanu fractional operators and their applications. *AIMS Mathematics*. 2022;7(8):15159-81. (Q1, I.F=2.2)
424. Luo R, Dhiman N, Nazari F, Sabi'u J, Ahmad H, Thounthong P, Botmart T. On new explicit solutions for solving Atangana conformable Biswas-Milovic equation with parabolic law nonlinearity in nonlinear Optics. *Results in Physics*. 2022;105760. <https://doi.org/10.1016/j.rinp.2022.105760> (Q1, I.F=5.3)
425. Euldji R, Batel N, Rebhi R, Lorenzini G, Jarasthitikulchai N, Menni Y, Ahmad H, Ameer H, Sudsutad W. Optimal Design and Performance Comparison of a Combined ANFIS-PID with Back Stepping Technique, Using Various Meta-Heuristic Algorithms to Solve Wheeled Mobile Robot Trajectory Tracking Problem. *Journal Européen des Systèmes Automatisés*. 2022;55(3):281-98. (ESCI)
426. Lechlech A, Kalaidji D, Hadjidj MS, Baili J, Abu-Zinadah H, Lorenzini G, Ahmad H, Menni Y. Study and Design of Nanostructures on Lithium Niobate for Dielectric Sensors: Application for the Detection of an Electrical Signal in Insulation Systems. *Journal of New Materials for Electrochemical Systems*. 2021;24(4). (Q4, I.F=0.9)

427. Abouelregal AE, Ahmad H, Yavuz M, Nofal TA, Alsulami MD. An orthotropic thermo-viscoelastic infinite medium with a cylindrical cavity of temperature dependent properties via MGT thermoelasticity. *Open Physics*. 2022;20(1):1127-41. (Q3, I.F=1.9)
428. Shaikh WA, Shah SF, Pandhiani SM, Solangi MA, Farooq M, Ahmad H, Kashuri A, Jarasthitikulchai N, Sudsutad W. A hybrid forecasting model based on the group method of data handling and wavelet decomposition for monthly rivers streamflow data sets. *Open Physics*. 2022;20(1):1096-111. (Q3, I.F=1.9)
429. Tariq M, Sahoo SK, Ahmad H, Iampan A, Shaikh AA. New Ostrowski type inequalities pertaining to conformable fractional operators. *Journal of Mathematics and Computer Science*, 2023; 29(1):28-39 (Q3, C.S= 0.6)
430. Dehane R, Naima K, Liazid A, Benarous A, Ahmad H, Menni Y. Impact of the convergent geometric profile on boundary layer separation in the supersonic over-expanded nozzle. *Open Physics*. 2022;20(1):1080-95. (Q3, I.F=1.9)
431. Bezari, S., Metidji, N., Lebbi, M., Merabti, S., Tearnbucha, C., Sudsutad, W., Lorenzini, G., Ahmad, H., Menni, Y. Investigation and analysis of soil temperature under solar greenhouse conditions in a semi-arid region. *International Journal of Design & Nature and Ecodynamics*, 2022;17(3):325-332. <https://doi.org/10.18280/ij dne.170301> (Q3, C.S= 1.5)
432. Benbelgacem, K., Kaddour, A., Bezari, S., Menni, Y., Tearnbucha, C., Lorenzini, G., Sudsutad, W., Ahmad, H. (2022). Thermal performance of EAHE system in Algerian site: Case study of Ghardaïa. *International Journal of Design & Nature and Ecodynamics*, 2022;17(3):375-382. <https://doi.org/10.18280/ij dne.170307> (Q3, C.S= 1.5)
433. Islam MT, Akbar MA, Ahmad H, Ilhan OA, Gepreel KA. Diverse and novel soliton structures of coupled nonlinear Schrödinger type equations through two competent techniques. *Modern Physics Letters B*. 2022 Apr 20;36(11):2250004. (Q2, I.F=1.9)
434. Zahran EH, Bekir A, Ahmad H. New unexpected perceptions for the optical solitary wave solution to the cubic-order nonlinear Schrödinger equation. *Optical and Quantum Electronics*. 2022 Jun;54(6):1-6. (Q2, I.F=3.0)
435. Javeed S, Abbasi MA, Imran T, Fayyaz R, Ahmad H, Botmart T. New soliton solutions of Simplified Modified Camassa Holm equation, Klein–Gordon–Zakharov equation using First Integral Method and Exponential Function Method. *Results in Physics*. 2022 May 4:105506. <https://doi.org/10.1016/j.rinp.2022.105506> (Q1, I.F=5.3)
436. Tripathy A, Sahoo S, Rezazadeh H, Ahmad H, Inc M. New multi-wave solutions of the conformable LPD model with nonlinear wave phenomena arise in mathematical physics. *Journal of Ocean Engineering and Science*. 2022 Apr 26. <https://doi.org/10.1016/j.joes.2022.04.016> (Q1, I.F=7.1)
437. Zahran EH, Ahmad H, Askar S, Botmart T, Shehata MS. Dark-soliton behaviors arising from a coupled nonlinear Schrödinger system. *Results in Physics*. 2022 May 1;36:105459. <https://doi.org/10.1016/j.rinp.2022.105459> (Q1, I.F=5.3)
438. Butt Si, Yousaf S, Younas M, Ahmad H, Yao Sw. Fractal Hadamard–Mercer-Type Inequalities with Applications. *Fractals*. 2022 Mar 9;30(02):2240055. (Q1, I.F= 4.7)
439. Derdour A, Bouanani A, Kaid N, Mukdasai K, Algelay AM, Ahmad H, Menni Y, Ameer H. Groundwater Potentiality Assessment of Ain Sefra Region in Upper Wadi Namous Basin, Algeria Using Integrated Geospatial Approaches. *Sustainability*. 2022;14(8):4450. (Q2, I.F= 3.9)

440. Razzaghi MJ, Daemiashezari M, Abdulfattah AN, Afrouzi HH, Ahmad H. Thermo-hydraulic performance evaluation of turbulent flow and heat transfer in a twisted flat tube: A CFD approach. *Case Studies in Thermal Engineering*. 2022 May 13:102107. <https://doi.org/10.1016/j.csite.2022.102107> (Q1, I.F=6.8)
441. Khan N, Ahmad Z, Ahmad H, Tchier F, Zhang XZ, Murtaza S. Dynamics of chaotic system based on image encryption through fractal-fractional operator of non-local kernel. *AIP Advances*. 2022 May 1;12(5):055129. (Q3, I.F= 1.6)
442. Jiang Y, Alawee WH, Essa FA, Omara ZM, Ahmad H, Ali R, Wang F, Menni Y. Effect of area ratio and Reynolds number on the distribution of discharge in dividing manifold. *International Journal of Low-Carbon Technologies*. 2022. <https://doi.org/10.1093/ijlct/ctac018> (Q2, I.F=2.3)
443. Rahmatan H, Shokri A, Ahmad H, Botmart T. Subordination Method for the Estimation of Certain Subclass of Analytic Functions Defined by the-Derivative Operator. *Journal of Function Spaces*. 2022 May 19;2022. (Q2, I.F=1.9)
444. Tariq, M., Ahmad, H., Sahoo, S. K., Aljoufi, L. Sh., Awan, S. K.. "A novel comprehensive analysis of the refinements of Hermite-Hadamard type integral inequalities involving special functions." *Journal of Mathematics and Computer Science*, 26(4) (2022): 330-348 (Q3, C.S= 0.6)
445. Bouchentouf AA, Boualem M, Yahiaoui L, Ahmad H. A multi-station unreliable machine model with working vacation policy and customers' impatience. *Quality Technology & Quantitative Management*. 2022:1-31. <https://doi.org/10.1080/16843703.2022.2054088> (Q1, I.F= 2.8)
446. Medkour M, Kaid N, Ameer H, Tearnbuch C, Sudsutad W, Lorenzini G, Ahmad H, Menni Y. Study of the Effect of ACL Anode Catalytic Layer Porosity on the Efficiency of a Direct Methanol Fuel Cell. *Annales de Chimie-Science des Matériaux* 2022 Feb (Vol. 46, No. 1, pp. 53-60). <https://doi.org/10.18280/acsm.460107> (Q4, C.S= 0.2)
447. Euldji R, Batel N, Rebhi R, Kaid N, Tearnbuch C, Sudsutad W, Lorenzini G, Ahmad H, Ameer H, Menni Y. Optimal Backstepping-FOPID Controller Design for Wheeled Mobile Robot. *Journal Européen des Systèmes Automatisés*;2022;11:13. <https://doi.org/10.18280/jesa.550110> (Q3, C.S= 0.8)
448. Kaddour A, Bezari S, Tearnbuch C, Sudsutad W, Lorenzini G, Ahmad H, Menni Y. Simulation Investigation of Natural Ventilation on the Thermal Comfort in Arid Regions: Case Ghardaïa. *Journal homepage: http://iieta.org/journals/ijdne*. 2022 Feb;17(1):9-15. (Q3, C.S= 1.0)
449. Sakhri N, Ahmad H, Shatanawi W, Menni Y, Ameer H, Botmart T. Different scenarios to enhance thermal comfort by renewable-ecological techniques in hot dry environment. *Case Studies in Thermal Engineering*. 2022 Feb 22:101886. <https://doi.org/10.1016/j.csite.2022.101886> (Q1, I.F=6.8)
450. Xia WF, Ahmad S, Khan MN, Ahmad H, Rehman A, Baili J, Gia TN. Heat and mass transfer analysis of nonlinear mixed convective hybrid nanofluid flow with multiple slip boundary conditions. *Case Studies in Thermal Engineering*. 2022:101893. <https://doi.org/10.1016/j.csite.2022.101893> (Q1, I.F=6.8)
451. Mohammed WW, Ahmed H, Albalahi AM, Abouelregal AE, Khelifi F, Atta D. Brownian motion effects on analytical solutions of a fractional-space long-short-wave interaction with conformable derivative. *Results in Physics*. 2022 Mar 4:105371. <https://doi.org/10.1016/j.rinp.2022.105371> (Q1, I.F=5.3)
452. Lahmer D, Benamara N, Ahmad H, Ameer H, Boulenouar A. Combination of the Parallel/Counter Flows Nanofluid Techniques to Improve the Performances of Double-Tube Thermal Exchangers. *Arabian Journal for Science and Engineering*. 2022 Mar 7:1-8. (Q2, I.F= 2.9)

453. Yilmaz EU, Khodad FS, Ozkan YS, Abazari R, Abouelregal AE, Shaayesteh MT, Rezazadeh H, Ahmad H. Manakov model of coupled NLS equation and its optical soliton solutions. *Journal of Ocean Engineering and Science*. 2022 Mar 17. <https://doi.org/10.1016/j.joes.2022.03.005> (Q1, I.F=7.1)
454. Ul Hassan SM, Karam W, Fakhar-e-Alam M, Atif M, Noureen A, Ahmad M, Irfan N, Ahmad S, Islam A, Ahmad H, Botmart T. Physical properties of PEG coated Y doped ZnO nanoparticles and their potential as high gamma dose thermoluminescence material. *Journal of King Saud University-Science*. 2022 Mar 16:101958. <https://doi.org/10.1016/j.jksus.2022.101958> (Q2, I.F=3.8)
455. Ahmad H, Abouelregal AE, Benhamed M, Alotaibi MF, Jendoubi A. Vibration analysis of nanobeams subjected to gradient-type heating due to a static magnetic field under the theory of nonlocal elasticity. *Scientific Reports*. 2022 Feb 3;12(1):1-8. (Q1, I.F=4.6)
456. Menni Y, Ahmad H, Ameer H, Askar S, Botmart T, Aiyashi MA, Lorenzini G. Effects of two-equation turbulence models on the convective instability in finned channel heat exchangers. *Case Studies in Thermal Engineering*. 2022 Feb 1:101824. <https://doi.org/10.1016/j.csite.2022.101824> (Q1, I.F=6.8)
457. Islam M, Akbar M, Ahmad H. Diverse optical soliton solutions of the fractional coupled (2+ 1)-dimensional nonlinear Schrödinger equations. *Optical and Quantum Electronics*. 2022;54(2):1-23. (Q2, I.F=3.0)
458. Albosaily S, Mohammed WW, Hamza AE, El-Morshedy M, Ahmad H. The exact solutions of the stochastic fractional-space Allen–Cahn equation. *Open Physics*. 2022 Jan 1;20(1):23-9. (Q3, I.F=1.9)
459. Almutairi B, Kamran M, Farooq A, Ahmad H, Shahzad A, Khan FU, Khan AS, Almohsen B. On the Taylor–Couette flow of fractional oldroyd-B fluids in a cylindrically symmetric configuration using transforms. *International Journal of Modern Physics C*. 2022 Jan 28:2250099. <https://doi.org/10.1142/S0129183122500991> (Q3, I.F= 1.9)
460. Malik AR, Nasir S, Shaheen F, Khalid M, Iqbal Y, Faisal A, Aziz MH, Atif M, Ahmad S, Fakhar-e-Alam M, Hossain N. Green synthesis of RGO-ZnO mediated Ocimum basilicum leaves extract nanocomposite for antioxidant, antibacterial, antidiabetic and photocatalytic activity. *Journal of Saudi Chemical Society*. 2022 Feb 7:101438. <https://doi.org/10.1016/j.jscs.2022.101438> (Q2, I.F= 5.6)
461. Zahran EH, Ahmad H, Saeed T, Botmart T. New diverse variety for the exact solutions to Keller-Segel-Fisher system. *Results in Physics*. 2022 Feb 10:105320. <https://doi.org/10.1016/j.rinp.2022.105320> (Q1, I.F=5.3)
462. Tahrour F, Ahmad H, Ameer H, Saeed T, Tchier F, Menni Y. 3D numerical study and comparison of thermal-flow performance of various annular finned-tube designs. *Journal of Ocean Engineering and Science*. 2022 Feb 15. (Q1, I.F=7.1)
463. Sinan M, Ahmad H, Ahmad Z, Baili J, Murtaza S, Aiyashi MA, Botmart T. Fractional mathematical modelling of malaria disease with treatment & insecticides. *Results in Physics*. 2022 Jan 22:105220. <https://doi.org/10.1016/j.rinp.2022.105220> (Q1, I.F=5.3)
464. Malik AR, Aziz MH, Atif M, Irshad MS, Ullah H, Gia TN, Ahmed H, Ahmad S, Botmart T. Lime peel extract induced NiFe₂O₄ NPs: Synthesis to applications and oxidative stress mechanism for anticancer, antibiotic activity. *Journal of Saudi Chemical Society*. 2022;26(2):101422. <https://doi.org/10.1016/j.jscs.2022.101422> (Q2, I.F= 5.6)

465. Fioranelli M, Ahmad H, Sepehri A, Roccia MG, Aziz F. A mathematical model for imaging and killing cancer cells by using concepts of the Warburg effect in designing a Graphene system. *Mathematical Biosciences and Engineering*. 2022;19(3):2985-95. (Q3, I.F= 2.6)
466. Ali U, Ahmad H, Baili J, Botmart T, Aldahlan MA. Exact Analytical Wave Solutions for Space-Time Variable-Order Fractional Modified Equal Width Equation. *Results in Physics*. 2022;33:105216. <https://doi.org/10.1016/j.rinp.2022.105216> (Q1, I.F=5.3)
467. Sahoo SK, Tariq M, Ahmad H, Kodamasingh B, Shaikh AA, Botmart T, El-Shorbagy MA. Some Novel Fractional Integral Inequalities over a New Class of Generalized Convex Function. *Fractal and Fractional*. 2022;6(1):42. (Q1, I.F= 5.4)
468. Abouelregal AE, Zakaria K, Sirwah MA, Ahmad H, Rashid AF. Viscoelastic initially stressed microbeam heated by an intense pulse laser via photo-thermoelasticity with two-phase lag. *International Journal of Modern Physics C*. 2022;33(6):2250073. <https://doi.org/10.1142/S0129183122500735> (Q3, I.F= 1.9)
469. Taher HG, Ahmad H, Singh J, Kumar D, Jassim HK. Solving fractional PDEs by using Daftardar-Jafari method. *AIP Conference Proceedings* 2022;2386(1):060002. AIP Publishing LLC.
470. Tariq M, Ahmad H, Cesarano C, Abu-Zinadah H, Abouelregal AE, Askar S. Novel Analysis of Hermite–Hadamard Type Integral Inequalities via Generalized Exponential Type m -Convex Functions. *Mathematics*. 2022;10(1):31. Q1, I.F= 2.4)
471. Iftikhar S, Erden S, Ali MA, Baili J, Ahmad H. Simpson’s Second-Type Inequalities for Co-Ordinated Convex Functions and Applications for Cubature Formulas. *Fractal and Fractional*. 2022;6(1):33. <https://doi.org/10.3390/fractalfract6010033> (Q1, I.F= 5.4)
472. Ali HM, Ahmad H, Askar S, Ameen IG. Efficient Approaches for Solving Systems of Nonlinear Time-Fractional Partial Differential Equations. *Fractal and Fractional*. 2022;6(1):32. (Q1, I.F= 5.4)
473. Amin R, Shah K, Ahmad H, Ganie AH, Abdel-Aty AH, Botmart T. Haar wavelet method for solution of variable order linear fractional integro-differential equations. *AIMS Mathematics*. 2022;7(4):5431-43. (Q1, I.F=2.2)
474. Farman M, Akgül A, Askar S, Botmart T, Ahmad A, Ahmad H. Modeling and analysis of fractional order Zika model. *AIMS Mathematics*. 2022;3:4. (Q1, I.F=2.2)
475. Khan MN, Ali R, Ahmad H, Abbas N, Mousa AA, Galal AM. Thermal and chemically reactive features of Casson nanofluid flow with thermophoresis and Brownian effect over an exponentially stretching surface. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2021;0(0):09544089211064465. <https://doi.org/10.1177/09544089211064465> Q3, I.F= 2.4)
476. Jassim HK, Ahmad H, Shamaoon A, Cesarano C. An efficient hybrid technique for the solution of fractional-order partial differential equations. *Carpathian Mathematical Publications*. 2021 Dec 30;13(3):790-804. (Q4, C.S= 0.3)
477. Wang F, Shah NA, Ahmad I, Ahmad H, Alam KM, Thounthong P. Solution of Burgers’ equation appears in fluid mechanics by multistage optimal homotopy asymptotic method. *Thermal Science*. 2021(00):343-343. (Q3, I.F=1.7)
478. Aamir Abbas Khan, Awais Ahmed, Sameh Askar, Muhammad Ashraf, Hijaz Ahmad & Muhammad Naveed Khan. Influence of the induced magnetic field on second-grade nanofluid flow with multiple slip boundary conditions, *Waves in Random and Complex Media*. 2021:1-16. <https://doi.org/10.1080/17455030.2021.2011986> (Q2, I.F=4.0)

479. Higazy M, Ahmad H, Ganie AH, Botmart T, El-Mesady A. Theoretical Analysis and Computational Modeling of Nonlinear Fractional-Order Victim-Two Predators Model. *Results in Physics*. 2021;32:105139. <https://doi.org/10.1016/j.rinp.2021.105139> (Q1, I.F=5.3)
480. Ahmad H, Mahmood R, Hafeez MB, Majeed AH, Askar S, Shahzad H. Thermal visualization of Ostwald-de Waele liquid in wavy trapezoidal cavity: Effect of undulation and amplitude. *Case Studies in Thermal Engineering*. 2021;29:101698. <https://doi.org/10.1016/j.csite.2021.101698> (Q1, I.F=6.8)
481. Ahmad H, Tariq M, Sahoo SK, Askar S, Abouelregal AE, Khedher KM. Refinements of Ostrowski Type Integral Inequalities Involving Atangana–Baleanu Fractional Integral Operator. *Symmetry*. 2021;13(11):2059. (Q2, I.F=2.7)
482. Mahmood A, Munir T, Fakhar-e-Alam M, Atif M, Shahzad K, Alimgeer KS, Gia TN, Ahmad H, Ahmad S. Analyses of structural and electrical properties of aluminium doped ZnO-NPs by experimental and mathematical approaches. *Journal of King Saud University-Science*. 2022;34(2):101796. (Q2, I.F=3.8)
483. Ahmad H, Sakhri N, Menni Y, Omri M, Ameer H. Experimental study of the efficiency of earth-to-air heat exchangers: Effect of the presence of external fans. *Case Studies in Thermal Engineering*. 2021;28:101461. <https://doi.org/10.1016/j.csite.2021.101461> (Q1, I.F=6.8)
484. Ahmad I, Ahmad H, Alimgeer KS, Cesarano C, Nofal TA, Alsulami MD. Meshless method based on RBFs for solving three-dimensional multi-term time fractional PDEs arising in engineering phenomena. *Journal of King Saud University-Science*. 2021;33(8):101604. (Q2, I.F=3.8)
485. Ahmad H, Tariq M, Sahoo SK, Baili J, Cesarano C. New Estimations of Hermite–Hadamard Type Integral Inequalities for Special Functions. *Fractal and Fractional*. 2021;5(4):144. (Q1, I.F= 5.4)
486. Ahmad H, Alam N, Omri M. New computational results for a prototype of an excitable system. *Results in Physics*. 2021;28:104666. <https://doi.org/10.1016/j.rinp.2021.104666> (Q1, I.F=5.3)
487. Ahmad H, Alam N, Rahim A, Alotaibi M F, Omri M. The unified technique for the nonlinear time-fractional model with the beta-derivative. *Results in Physics*. 2021;29:104785. <https://doi.org/10.1016/j.rinp.2021.104785> (Q1, I.F=5.3)
488. Ali A, Islam S, Khan MR, Rasheed S, Allehiany FM, Baili J, Khan MA, Ahmad H. Dynamics of a fractional order Zika virus model with mutant. *Alexandria Engineering Journal*. 2021;61(6):4821-4836. <https://doi.org/10.1016/j.aej.2021.10.031> (Q1, I.F= 6.8)
489. Ahmad H, Tariq M, Sahoo SK, Askar S, Abouelregal AE, Khedher KM. Refinements of Ostrowski Type Integral Inequalities Involving Atangana–Baleanu Fractional Integral Operator. *Symmetry*. 2021 Nov;13(11):2059. (Q2, I.F=2.7)
490. Liu X, Ahsan M, Ahmad M, Nisar M, Liu X, Ahmad I, Ahmad H. Applications of Haar Wavelet-Finite Difference Hybrid Method and Its Convergence for Hyperbolic Nonlinear Schrödinger Equation with Energy and Mass Conversion. *Energies*. 2021;14(23):7831. (Q1, I.F= 3.2)
491. Tariq M, Ahmad H, Budak H, Sahoo SK, Sitthiwiratham T, Reunsumrit J. A Comprehensive Analysis of Hermite–Hadamard Type Inequalities via Generalized Preinvex Functions. *Axioms*. 2021;10(4):328. (Q2, I.F= 2.0)
492. Munir T, Mahmood A, Ahmad N, Atif M, Alimgeer KS, Fatehmulla A, Hanif A, Yaqub N, Farooq WA, Ahmad S, Chu YM. Structural, electrical and optical properties of $\text{Zn}_{1-x}\text{Cu}_x\text{O}$ ($x= 0.00-0.09$) nanoparticles. *Journal of King Saud University-Science*. 2021 Mar 1;33(2):101330. (Q2, I.F=3.8)

493. Zahran EH, Mirhosseini-Alizamini SM, Shehata MS, Rezazadeh H, Ahmad H. Study on abundant explicit wave solutions of the thin-film Ferro-electric materials equation. *Optical and Quantum Electronics*. 2022;54(1):1-3. (Q2, I.F=3.0)
494. Ahmad S, Khan MN, Nadeem S, Rehman A, Ahmad H, Ali R. Impact of Joule heating and multiple slips on a Maxwell nanofluid flow past a slendering surface. *Communications in Theoretical Physics*. 2021;74(1):015001. <https://doi.org/10.1088/1572-9494/ac3bc8> (Q2, I.F=3.1)
495. Bilal M, Khan KA, Ahmad H, Nosheen A, Awan KM, Askar S, Alharthi M. Some Dynamic Inequalities via Diamond Integrals for Function of Several Variables. *Fractal and Fractional*. 2021;5(4):207. (Q1, I.F= 5.4)
496. Zahran EH, Bekir A, Ahmed H. A variety of exact solutions of the $(2+1)$ -dimensional modified Zakharov–Kuznetsov equation. *Modern Physics Letters B*. 2021;35(33):2150509. <https://doi.org/10.1142/S0217984921505096> (Q2, I.F=1.9)
497. Abdel-Khalek S, Abo-Dahab SM, Ragab M, Rawa M, Ahmad H. Engineering entanglement, geometric phase, and quantum Fisher information of a three-level system with energy dissipation. *Mathematical Methods in the Applied Sciences*. 2021;44(16):12120-8. (Q1, I.F= 2.9)
498. Sahoo SK, Tariq M, Ahmad H, Aly AA, Felemban BF, Thounthong P. Some Hermite–Hadamard-Type Fractional Integral Inequalities Involving Twice-Differentiable Mappings. *Symmetry*. 2021;13(11):2209. (Q2, I.F=2.7)
499. Umar M, Sabir Z, Raja MA, Javeed S, Ahmad H, Elagen SK, Khames A. Numerical Investigations through ANNs for Solving COVID-19 Model. *International journal of environmental research and public health*. 2021;18(22):12192. (Q1, I.F= 4.6)
500. Tariq M, Ahmad H, Shaikh AG, Sahoo SK, Khedher KM, Gia TN. New fractional integral inequalities for preinvex functions involving Caputo-Fabrizio operator. *AIMS Mathematics*. 2022;7(3):3440-55. (Q1, I.F=2.2)
501. Kalsoom H, Vivas-Cortez M, Amer Latif M, Ahmad H. Weighted Midpoint Hermite-Hadamard-Fejér Type Inequalities in Fractional Calculus for Harmonically Convex Functions. *Fractal and Fractional*. 2021;5(4):252. (Q1, I.F= 5.4)
502. Ali SN, Ahmad I, Abu-Zinadah H, Mohamed KK, Ahmad H. Multistage optimal homotopy asymptotic method for the K (2, 2) equation arising in solitary waves theory. *Thermal Science*. 2021;25(Spec. issue 2):199-205. (Q3, I.F=1.7)
503. Jan WU, Farooq M, Baili J, Shah RA, Khan A, Ahmad H. Magnetic field dependent viscous fluid-flow between squeezing plates with homogeneous and heterogeneous reactions. *Thermal Science*. 2021;25(Spec. issue 2):423-31. (Q3, I.F=1.7)
504. Shahzad A, Habib B, Nadeem M, Kamran M, Ahma H, Atif M, Ahmad S. Numerical analysis of flow and heat transfer in a thin film along an unsteady stretching cylinder. *Thermal Science*. 2021;25(Spec. issue 2):441-8. (Q3, I.F=1.7)
505. Memon KN, Alam MK, Baili J, Nawaz Z, Shiekh AH, Ahmad H. Analytical solution of tank drainage flow for electrically conducting Newtonian fluid. *Thermal Science*. 2021;25(Spec. issue 2):433-9. (Q3, I.F=1.7)
506. Wang F, Rehman S, Bouslimi J, Khaliq H, Qureshi MI, Kamran M, Alharbi AN, Ahmad H, Farooq A. Comparative study of heat and mass transfer of generalized MHD Oldroyd-B bio-nano fluid in a permeable medium with ramped conditions. *Scientific Reports*. 2021;6;11(1):1-32. (Q1, I.F=4.6)

507. Ahsan M, Lin S, Ahmad M, Nisar M, Ahmad I, Ahmed H, Liu X. A Haar wavelet-based scheme for finding the control parameter in nonlinear inverse heat conduction equation. *Open Physics*. 2021;19(1):722-34. (Q3, I.F=1.9)
508. Gogoi B, Saha UK, Hazarika B, Torres DF, Ahmad H. Nabla Fractional Derivative and Fractional Integral on Time Scales. *Axioms*. 2021;10(4):317. (Q2, I.F= 2.0)
509. Alliche M, Rebhi R, Kaid N, Menni Y, Ameer H, Inc M, Ahmad H, Lorenzini G, Aly AA, Elagan SK, Felemban BF. Estimation of the Wind Energy Potential in Various North Algerian Regions. *Energies*. 2021;14(22):7564. (Q1, I.F= 3.2)
510. Tariq M, Shaikh AA, Sahoo SK, Ahmad H, Sitthiwirattam T, Reunsumrit J. New Integral Inequalities via Generalized Preinvex Functions. *Axioms*. 2021;10(4):296. (Q2, I.F= 2.0)
511. Tariq M, Shaikh AA, Sahoo SK, Ahmad H, Sitthiwirattam T, Reunsumrit J. New Integral Inequalities via Generalized Preinvex Functions. *Axioms*. 2021;10(4):296. (Q2, I.F= 2.0)
512. Alliche M, Rebhi R, Kaid N, Menni Y, Ameer H, Inc M, Ahmad H, Lorenzini G, Aly AA, Elagan SK, Felemban BF. Estimation of the Wind Energy Potential in Various North Algerian Regions. *Energies*. 2021; 14(22):7564. <https://doi.org/10.3390/en14227564> (Q1, I.F= 3.2)
513. El-Deeb AA, Ahmad H, Awrejcewicz J. New Fractional Dynamic Inequalities via Conformable Delta Derivative on Arbitrary Time Scales. *Symmetry*. 2021;13(11):2049. (Q2, I.F=2.7)
514. Bulut S, Karabacak M, Ahmad H, Askar S. New Solitary and Periodic Wave Solutions of $(n+1)$ -Dimensional Fractional Order Equations Modeling Fluid Dynamics. *Symmetry*. 2021;13(11): 2017. (Q2, I.F=2.7)
515. Sayad B, Alkama D, Rebhi R, Menni Y, Ahmad H, Inc M, Sharifpur M, Lorenzini G, Azab E, Elnaggar AY. Outdoor Thermal Comfort Optimization through Vegetation Parameterization: Species and Tree Layout. *Sustainability*. 2021;13(21):11791. (Q2, I.F= 3.9)
516. Asjad MI, Basit A, Ahmad H, Askar S, Botmart T. Unsteady thermal transport flow of Maxwell clay nanoparticles with generalized Mittag-Leffler kernel of Prabhakar's kind. *Case Studies in Thermal Engineering*. 2021:101585. <https://doi.org/10.1016/j.csite.2021.101585> (Q1, I.F=6.8)
517. Firdous H, Saeed ST, Ahmad H, Askar S. Using Non-Fourier's Heat Flux and Non-Fick's Mass Flux Theory in the Radiative and Chemically Reactive Flow of Powell–Eyring Fluid. *Energies*. 2021;14(21):6882. (Q1, I.F= 3.2)
518. Aljaaidi TA, Pachpatte DB, Abdo MS, Botmart T, Ahmad H, Almalahi MA, Redhwan SS. (k, ψ) -Proportional Fractional Integral Pólya–Szegő and Grüss-Type Inequalities. *Fractal and Fractional*. 2021;5(4):172. (Q1, I.F= 5.4)
519. Agrawal P, Alnowibet K, Ganesh T, Alrasheedi AF, Ahmad H, Mohamed AW. An Artificial Intelligence Approach for Solving Stochastic Transportation Problems. *CMC-Computers Materials & Continua*. 2022;70(1):817-29. (Q2, I.F= 3.1)
520. Medjahed DM, Ameer H, Rebhi R, Inc M, Ahmad H, Menni Y, Lorenzini G, Bayones FS, Aldhabani M. Details on the Hydrothermal Characteristics within a Solar-Channel Heat-Exchanger Provided with Staggered T-Shaped Baffles. *Energies*. 2021;14(20):6698. (Q1, I.F= 3.2)
521. Medjahed DM, Ameer H, Rebhi R, Inc M, Ahmad H, Menni Y, Lorenzini G, Bayones FS, Aldhabani M. Details on the Hydrothermal Characteristics within a Solar-Channel Heat-Exchanger Provided with Staggered T-Shaped Baffles. *Energies*. 2021;14(20):6698. (Q1, I.F= 3.2)

522. Hafeez MB, Sumelka W, Nazir U, Ahmad H, Askar S. Mechanism of Solute and Thermal Characteristics in a Casson Hybrid Nanofluid Based with Ethylene Glycol Influenced by Soret and Dufour Effects. *Energies*. 2021;14(20):6818. (Q1, I.F= 3.2)
523. Boutiara A, Abdo MS, Almalahi MA, Ahmad H, Ishan A. Implicit Hybrid Fractional Boundary Value Problem via Generalized Hilfer Derivative. *Symmetry*. 2021;13(10):1937. (Q2, I.F=2.7)
524. Djeflal F, Bordja L, Rebhi R, Inc M, Ahmad H, Tahrouf F, Ameer H, Menni Y, Lorenzini G, Elagan SK, Jawa TM. Numerical Investigation of Thermal-Flow Characteristics in Heat Exchanger with Various Tube Shapes. *Applied Sciences*. 2021;11(20):9477. (Q2, I.F= 2.7)
525. Hussain, A., Hassan, A., Mdallal, Q.A. et al. Comsol solution of an elliptic cylindrical compressible fluid flow. *Scientific Reports* 11, 20030 (2021). <https://doi.org/10.1038/s41598-021-99138-7> (Q1, I.F=4.6)
526. Mohammed WW, Qahiti R, Ahmad H, Baili J, Mansour FE, El-Morshedy M. Exact solutions for the system of stochastic equations for the ion sound and Langmuir waves. *Results in Physics*. 2021;8:104841. <https://doi.org/10.1016/j.rinp.2021.104841> (Q1, I.F=5.3)
527. Hussain A, Arshad M, Hassan A, Rehman A, Ahmad H, Baili J, Gia TN. Heat transport investigation of engine oil based rotating nanomaterial liquid flow in the existence of partial slip effect. *Case Studies in Thermal Engineering*. 2021:101500. <https://doi.org/10.1016/j.csite.2021.101500> (Q1, I.F=6.8)
528. Tariq H, Sadaf M, Akram G, Rezazadeh H, Baili J, Lv YP, Ahmad H. Computational study for the conformable nonlinear Schrödinger equation with cubic–quintic–septic nonlinearities. *Results in Physics*. 2021;30:104839. <https://doi.org/10.1016/j.rinp.2021.104839> (Q1, I.F=5.3)
529. Fakhra-e-Alam M, Shafiq Z, Mahmood A, Atif M, Anwar H, Hanif A, Yaqub N, Farooq WA, Fatehmulla A, Ahmad S, Abd Elatty E. Assessment of green and chemically synthesized copper oxide nanoparticles against hepatocellular carcinoma. *Journal of King Saud University-Science*. 2021;33(8):101669. <https://doi.org/10.1016/j.jksus.2021.101669> (Q2, I.F=3.8)
530. Aslam M, Farman M, Ahmad H, Gia TN, Ahmad A, Askar S. Fractal fractional derivative on chemistry kinetics hires problem. *AIMS Mathematics*. 2022;7(1):1155-84. (Q1, I.F=2.2)
531. Baskonus HM, Gao W, Rezazadeh H, Mirhosseini-Alizamini SM, Baili J, Ahmad H, Gia TN. New Classifications of nonlinear Schrödinger Model with group velocity dispersion via new extended method. *Results in Physics*. 2021;31:104910. <https://doi.org/10.1016/j.rinp.2021.104910> (Q1, I.F=5.3)
532. Sarwar M, Islam Z, Ahmad H, Işık H, Noeiaghdam S. Near-Common Fixed Point Result in Cone Interval b-Metric Spaces over Banach Algebras. *Axioms*. 2021;10(4):251. (Q2, I.F= 2.0)
533. Tariq M, Sahoo SK, Ahmad H, Sitthiwiratham T, Soontharanon J. Several Integral Inequalities of Hermite–Hadamard Type Related to k-Fractional Conformable Integral Operators. *Symmetry*. 2021;13(10):1880. (Q2, I.F=2.7)
534. Butt SI, Yousaf S, Younas M, Ahmad H, Yao SW. Fractal Hadamard-Mercer Type Inequalities with Applications. *Fractals*. 2021;31:104910. <https://doi.org/10.1142/S0218348X22400552> (Q1, I.F= 4.7)
535. Wang F, Khan MN, Ahmad I, Ahmad H, Abu-Zinadah H, Chu YM. Numerical Solution of Traveling Waves in Chemical Kinetics: Time Fractional Fishers Equations. *Fractals*. 2021;30(2):2240051. <https://doi.org/10.1142/S0218348X22400515> (Q1, I.F= 4.7)
536. Saeed ST, Riaz MB, Awrejcewicz J, Ahmad H. Exact Symmetric Solutions of MHD Casson Fluid Using Chemically Reactive Flow with Generalized Boundary Conditions. *Energies*. 2021;14(19):6243. (Q1, I.F= 3.2)

537. Abouelregal AE, Ahmad H, Elagan SK, Alshehri NA. Modified Moore–Gibson–Thompson photo-thermoelastic model for a rotating semiconductor half-space subjected to a magnetic field. *International Journal of Modern Physics C*. 2021;32(12):1-26. <https://doi.org/10.1142/S0129183121501631> (Q3, I.F=1.9)
538. Nawaz R, Farid S, Ayaz M, Ahmad H. Application of New Iterative Method to Fractional Order Integro-Differential Equations. *International Journal of Applied and Computational Mathematics*. 2021;7(6):1-2. (ESCI)
539. Yalçinkaya İ, Ahmad H, Tasbozan O, Kurt A. Soliton solutions for time fractional ocean engineering models with Beta derivative. *Journal of Ocean Engineering and Science*. 2021;7(5):444-448. <https://doi.org/10.1016/j.joes.2021.09.015> (Q1, I.F=7.1)
540. Abouelregal AE, Ahmad H, Badr SK, Elmasry Y, Yao SW. Thermo-viscoelastic behavior in an infinitely thin orthotropic hollow cylinder with variable properties under the non-Fourier MGT thermoelastic model. *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*. 2021;102(1):202000344. <https://doi.org/10.1002/zamm.202000344> (Q2, I.F= 2.3)
541. Hashemi MS, Rezazadeh H, Almusawa H, Ahmad H, Bonab I. A Lie group integrator to solve the hydromagnetic stagnation point flow of a second grade fluid over a stretching sheet. *AIMS Mathematics*. 2021;6(12):13392-406. (Q1, I.F=2.2)
542. Abouelregal AE, Ahmad H, Yao SW, Abu-Zinadah H. Thermo-viscoelastic orthotropic constraint cylindrical cavity with variable thermal properties heated by laser pulse via the MGT thermoelasticity model. *Open Physics*. 2021;19(1):504-18. (Q3, I.F=1.9)
543. Sahoo SK, Ahmad H, Tariq M, Kodamasingh B, Aydi H, De la Sen M. Hermite–Hadamard Type Inequalities Involving k-Fractional Operator for (h, m)-Convex Functions. *Symmetry*. 2021;13(9):1686. (Q2, I.F=2.7)
544. Gangadharan M, Kaliyappan V, Ahmad H, Mahmoud KH, Khalil EM. Mapping properties of Janowski-type harmonic functions involving Mittag-Leffler function. *AIMS Mathematics*. 2021;6(12):13235-46. (Q1, I.F=2.2)
545. Firdous H, Saeed ST, Ahmad H, Askar S. Using Non-Fourier’s Heat Flux and Non-Fick’s Mass Flux Theory in the Radiative and Chemically Reactive Flow of Powell–Eyring Fluid. *Energies*. 2021;14(21):6882. (Q1, I.F= 3.2)
546. Butt SI, Yousaf S, Ahmad H, Nofal TA. Jensen–Mercer inequality and related results in the fractal sense with applications. *Fractals*. 2021;30(1):2240008. <https://doi.org/10.1142/S0218348X22400084> (Q1, I.F= 4.7)
547. Wang F, Hanif U, Nosheen A, Khan Ka, Ahmad H, Nonlaopon K. Some hardy-type inequalities for convex functions via delta fractional integrals. *Fractals*. 2021;30(1):2240004. <https://doi.org/10.1142/S0218348X22400047> (Q1, I.F= 4.7)
548. Tariq, M.; Shaikh, A.A.; Sahoo, S.K.; Ahmad, H.; Sitthiwiratham, T.; Reunsumrit, J. New Integral Inequalities via Generalized Preinvex Functions. *Axioms* 2021;10: 296. (Q2, I.F= 2.0)
549. Hussain A, Haider Q, Rehman A, Ahmad H, Baili J, Aljahdaly NH, Hassan A. A thermal conductivity model for hybrid heat and mass transfer investigation of single and multi-wall carbon nano-tubes flow induced by a spinning body. *Case Studies in Thermal Engineering*. 2021;28:101449. <https://doi.org/10.1016/j.csite.2021.101449> (Q1, I.F=6.8)

550. Khater M, Jhangeer A, Rezazadeh H, Akinyemi L, Akbar MA, Inc M, Ahmad H. New kinds of analytical solitary wave solutions for ionic currents on microtubules equation via two different techniques. *Optical and Quantum Electronics*. 2021;53(11):1-27. (Q2, I.F=3.0)
551. Abouelregal AE, Ahmad H, Yahya AM, Saidi A, Alfadil H. Generalized thermoelastic responses in an infinite solid cylinder under the thermoelastic-diffusion model with four lags. *Chinese Journal of Physics*. 2021;76:121-134. <https://doi.org/10.1016/j.cjph.2021.08.015> (Q2, I.F= 5.0)
552. Ahmad SW, Sarwar M, Rahmat G, Shah K, Ahmad H, Mousa Aa. Fractional order model for the Coronavirus (Covid-19) In Wuhan, China. *Fractals*. 2021;30(1):2240007. (Q1, I.F= 4.7)
553. Abouelregal AE, Ahmad H, Badr SK, Almutairi B, Almohsen B. Viscoelastic stressed microbeam analysis based on Moore–Gibson–Thompson heat equation and laser excitation resting on Winkler foundation. *Journal of Low Frequency Noise, Vibration and Active Control*. 2021;41(1):118-139. <https://doi.org/10.1177/14613484211040318> (Q2, I.F= 2.3)
554. Tariq H, Ahmed H, Rezazadeh H, Javeed S, Alimgeer KS, Nonlaopon K, Baili J, Khedher KM. New travelling wave analytic and residual power series solutions of conformable Caudrey-Dodd-Gibbon-Sawada-Kotera equation. *Results in Physics*. 2021;29:104591. <https://doi.org/10.1016/j.rinp.2021.104591> (Q1, I.F=5.3)
555. Wang FZ, Hou ER, Ahmad I, Ahmad H. An Efficient Meshless Method for Hyperbolic Telegraph Equations. *CMES-Computer Modeling in Engineering & Sciences* 2021;128(2):687-698. (Q2, I.F= 2.4)
556. Dilshad S, Singh N, Atif M, Hanif A, Yaqub N, Farooq WA, Ahmad H, Chu YM, Masood MT. Automated image classification of chest X-rays of COVID-19 using deep transfer learning. *Results in Physics*. 2021;28:104529. <https://doi.org/10.1016/j.rinp.2021.104529> (Q1, I.F=5.3)
557. Sahoo SK, Tariq M, Ahmad H, Nasir J, Aydi H, Mukheimer A. New Ostrowski-Type Fractional Integral Inequalities via Generalized Exponential-Type Convex Functions and Applications. *Symmetry*. 2021;13(8):1429. (Q2, I.F=2.7)
558. Farid G, Yasmeen H, Ahmad H, Jung CY. Riemann-Liouville Fractional integral operators with respect to increasing functions and strongly (α, m) -convex functions. *AIMS Mathematics*. 2021;6(10):11403-24. (Q1, I.F=2.2)
559. Ahmad S, Javeed S, Ahmad H, Khushi J, Elagan SK. Analysis and Numerical Solution of Novel Fractional Model for Dengue. *Results in Physics*. 2021;28:104669. <https://doi.org/10.1016/j.rinp.2021.104669> (Q1, I.F=5.3)
560. Zahran EH, Bekir A, Alotaibi MF, Omri M, Ahmed H. New impressive behavior of the exact solutions to the Benjamin-Bona-Mahony-Burgers equation with dual power-law nonlinearity against its numerical solution. *Results in Physics*. 2021;29:104730. <https://doi.org/10.1016/j.rinp.2021.104730> (Q1, I.F=5.3)
561. Akinyemi L, Rezazadeh H, Shi QH, Inc M, Khater MM, Ahmad H, Jhangeer A, Akbar MA. New optical solitons of perturbed nonlinear Schrödinger-Hirota equation with spatio-temporal dispersion. *Results in Physics*. 2021;29:104656. <https://doi.org/10.1016/j.rinp.2021.104656> (Q1, I.F=5.3)
562. Khan MN, Ahmad S, Nadeem S, Sherif ES, Ahmad H, Thounthong P, Rehman A. Unsteady flow of three-dimensional Maxwell nanofluid with variable properties over a stretching surface. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2021. <https://doi.org/10.1177/09544089211039055> Q3, I.F= 2.4)

563. Ahmad H, Tollu DT, Yalcinkaya I, Yao SW. A detailed study on a solvable system of difference equations. *Mathematical Biosciences and Engineering*. 2021;18(4). (Q3, I.F= 2.6)
564. Durur, H., Yokuş, A., Kaya, D., Ahmad, H. (2021). Modeling of Dark Solitons for Nonlinear Longitudinal Wave Equation in a Magneto-Electro-Elastic Circular Rod. *Sound & Vibration*, 55(3), 241–251. (Q4, C.S= 0.1)
565.] Bilal S, Rehman M, Noeiaghdam S, Ahmad H, Akgül A. Numerical Analysis of Natural Convection Driven Flow of a Non-Newtonian Power-Law Fluid in a Trapezoidal Enclosure with a U-Shaped Constructal. *Energies*. 2021;14(17):5355. (Q1, I.F= 3.2)
566. Abouelregal AE, Ahmad H, Badr SK, Almutairi B, Almohsen B. Viscoelastic stressed microbeam analysis based on Moore–Gibson–Thompson heat equation and laser excitation resting on Winkler foundation. *Journal of Low Frequency Noise, Vibration and Active Control*. 2021;41(1):118-139. <https://doi.org/10.1177/14613484211040318> (Q2, I.F= 2.3)
567. Sayad B, Alkama D, Ahmad H, Baili J, Aljahdaly NH, Menni Y. Nature-based solutions to improve the summer thermal comfort outdoors. *Case Studies in Thermal Engineering*. 2021;28:101399. <https://doi.org/10.1016/j.csite.2021.101399> (Q1, I.F=6.8)
568. Ahmad I, Ahmad H, Inc M, Rezazadeh H, Akbar MA, Khater MM, Akinyemi L, Jhangeer A. Solution of fractional-order Korteweg-de Vries and Burgers' equations utilizing local meshless method. *Journal of Ocean Engineering and Science*. 2021. <https://doi.org/10.1016/j.joes.2021.08.014> (Q1, I.F=7.1)
569. Ahmed, H.E.; Iqbal, Y.; Aziz, M.H.; Atif, M.; Batool, Z.; Hanif, A.; Yaqub, N.; Farooq, W.A.; Ahmad, S.; Fatehmulla, A.; Ahmad, H. Green Synthesis of CeO₂ Nanoparticles from the *Abelmoschus esculentus* Extract: Evaluation of Antioxidant, Anticancer, Antibacterial, and Wound-Healing Activities. *Molecules* 2021, 26, 4659. <https://doi.org/10.3390/molecules26154659> (Q2, I.F= 4.6)
570. Hussain A, Arshad M, Rehman A, Hassan A, Elagan SK, Ahmad H, Ishan A. Three-Dimensional Water-Based Magneto-Hydrodynamic Rotating Nanofluid Flow over a Linear Extending Sheet and Heat Transport Analysis: A Numerical Approach. *Energies*. 2021;14(16):5133. (Q1, I.F= 3.2)
571. Farid G, Yasmeen H, Ahmad H, Jung CY. Riemann-Liouville Fractional integral operators with respect to increasing functions and strongly (α, m) -convex functions. *AIMS Mathematics*. 2021;6(10):11403-24. (Q1, I.F=2.2)
572. Cimpoiasu R, Rezazadeh H, Florian DA, Ahmad H, Nonlaopon K, Altanji M. Symmetry reductions and invariant-group solutions for a two-dimensional Kundu-Mukherjee-Naskar model. *Results in Physics*. 2021;28:104583. <https://doi.org/10.1016/j.rinp.2021.104583> (Q1, I.F=5.3)
573. Ismail GM, Abul-Ez M, Zayed M, Ahmad H, El-Moshneb M. Highly accurate analytical solution for free vibrations of strongly nonlinear Duffing oscillator. *Journal of Low Frequency Noise, Vibration and Active Control*. 2021;41(1):223-229: <https://doi.org/10.1177/14613484211034009> (Q2, I.F= 2.3)
574. Khan A, Shah RA, Alam MK, Ahmed H, Shahzad M, Rehman S, Ahmed S, Khan MS, Abdel-Aty AH, Zakarya M. Computational investigation of an unsteady non-Newtonian and non-isothermal fluid between coaxial contracting channels: A PCM approach. *Results in Physics*. 2021;28:104570. <https://doi.org/10.1016/j.rinp.2021.104570> (Q1, I.F=5.3)
575. Hussain A, Hassan A, Al Mdallal Q, Ahmad H, Rehman A, Altanji M, Arshad M. Heat transport investigation of magneto-hydrodynamics (SWCNT-MWCNT) hybrid nanofluid under the thermal radiation regime. *Case Studies in Thermal Engineering*. 2021;27:101244. (Q1, I.F=6.8)

576. Rafiq M, Noor MA, Farwa S, Kamran M, Saeed F, Gepreel KA, Yao SW, Ahmad H. Series solution to fractional contact problem using Caputo's derivative. *Open Physics*. 2021;19(1):402-12. (Q3, I.F=1.9)
577. Amin R, Ahmad H, Shah K, Hafeez MB, Sumelka W. Theoretical and computational analysis of nonlinear fractional integro-differential equations via collocation method. *Chaos, Solitons & Fractals*. 2021;151:111252. <https://doi.org/10.1016/j.chaos.2021.111252> (Q1, I.F= 7.8)
578. Farwa S, Kamran M, Sarwar S, Kazmi M, Ahmad H, Gepreel KA. A study of bipolar fuzzy parameterized soft sets and their application in decision making. *Journal of Intelligent & Fuzzy Systems*. 2021;1-9. <https://doi.org/10.3233/JIFS-202685> (Q4, I.F= 1.7)
579. Ismail GM, Abul-Ez M, Ahmad H, Farea NM. Analytical study of the vibrating double-sided quintic nonlinear nano-torsional actuator using higher-order Hamiltonian approach. *Journal of Low Frequency Noise, Vibration and Active Control*. 2021;41(1):269-277. <https://doi.org/10.1177/14613484211032022> (Q2, I.F= 2.3)
580. Javeed S, Anjum S, Alimgeer KS, Atif M, Khan MS, Farooq WA, Hanif A, Ahmed H, Yao SW. A Novel Mathematical Model for COVID-19 with Remedial Strategies. *Results in Physics*. 2021;27:104248. <https://doi.org/10.1016/j.rinp.2021.104248> (Q1, I.F=5.3)
581. Wang F, Asjad MI, Zahid M, Iqbal A, Ahmad H, Alsulami MD. Unsteady thermal transport flow of Casson nanofluids with generalized Mittag-Leffler kernel of Prabhakar's type. *Journal of Materials Research and Technology*. 2021;14:1292-1300. <https://doi.org/10.1016/j.jmrt.2021.07.029> (Q1, I.F= 6.4)
582. Hussain A, Hassan A, Al Mdallal Q, Ahmad H, Rehman A, Altanji M, Arshad M. Heat transportation enrichment and elliptic cylindrical solution of time-dependent flow. *Case Studies in Thermal Engineering*. 2021;27:101248. <https://doi.org/10.1016/j.csite.2021.101248> (Q1, I.F=6.8)
583. El-Hadj A, Kezrane M, Ahmad H, Ameer H, Abd Rahim SZ, Younsi A, Abu-Zinadah H. Design and simulation of mechanical ventilators. *Chaos, Solitons & Fractals*. 2021;150:11169. <https://doi.org/10.1016/j.chaos.2021.111169> (Q1, I.F= 7.8)
584. Abdel-Salam EA, Jazmati MS, Ahmad H. Geometrical study and solutions for family of burgers-like equation with fractional order space time. *Alexandria Engineering Journal*. 2021;61(1):511-521. <https://doi.org/10.1016/j.aej.2021.06.032> (Q1, I.F= 6.8)
585. Mohammed WW, Ahmad H, Boulares H, Khelifi F, El-Morshedy M. Exact solutions of Hirota–Maccari system forced by multiplicative noise in the Itô sense. *Journal of Low Frequency Noise, Vibration and Active Control*. 2021;41(1):74-84. <https://doi.org/10.1177/14613484211028100> (Q2, I.F= 2.3)
586. Wang F, Zhang J, Ahmad I, Farooq A, Ahmad H. A Novel Meshfree Strategy for a Viscous Wave Equation With Variable Coefficients. *Frontiers in Physics*. 2021;9:359. (Q2, I.F=3.1)
587. Asjad MI, Faridi WA, Jhangeer A, Abu-Zinadah H, Ahmad H. The fractional comparative study of the non-linear directional couplers in non-linear optics. *Results in Physics*. 2021;27:104459. <https://doi.org/10.1016/j.rinp.2021.104459> (Q1, I.F=5.3)
588. Yokus A, Durur H, Kaya D, Ahmad H, Nofal TA. Numerical Comparison of Caputo and Conformable Derivatives of Time Fractional Burgers-Fisher Equation. *Results in Physics*. 2021;25:104247. <https://doi.org/10.1016/j.rinp.2021.104247> (Q1, I.F=5.3)
589. Javeed S, Anjum S, Alimgeer KS, Atif M, Khan MS, Farooq WA, Hanif A, Ahmed H, Yao SW. A Novel Mathematical Model for COVID-19 with Remedial Strategies. *Results in Physics*. 2021;25:104248. <https://doi.org/10.1016/j.rinp.2021.104248> (Q1, I.F=5.3)

590. Hussain A, Alshbool MH, Abdussattar A, Rehman A, Ahmad H, Nofal TA, Khan MR. A computational model for hybrid nanofluid flow on a rotating surface in the existence of convective condition. *Case Studies in Thermal Engineering*. 2021;26:101089. <https://doi.org/10.1016/j.csite.2021.101089> (Q1, I.F=6.8)
591. Santra SS, Khedher KM, Nonlaopon K, Ahmad H. New results on qualitative behavior of second order nonlinear neutral impulsive differential systems with canonical and non-canonical conditions. *Symmetry*. 2021 Jun;13(6):934. (Q2, I.F=2.7)
592. Baba IA, Ahmad H, Alsulami MD, Altanji M. A Mathematical Model to Study Resistance and Non-Resistance Strains of Influenza. *Results in Physics*. 2021;26:104390. <https://doi.org/10.1016/j.rinp.2021.104390> (Q1, I.F=5.3)
593. Akinyemi L, Rezazadeh H, Yao SW, Akbar MA, Khater MM, Jhangeer A, Inc M, Ahmad H. Nonlinear dispersion in parabolic law medium and its optical solitons. *Results in Physics*. 2021;26: 104411. <https://doi.org/10.1016/j.rinp.2021.104411> (Q1, I.F=5.3)
594. Abouelregal AE, Ahmad H, Nofal TA, Abu-Zinadah H. Moore–Gibson–Thompson thermoelasticity model with temperature-dependent properties for thermo-viscoelastic orthotropic solid cylinder of infinite length under a temperature pulse. *Physica Scripta*. 2021;96(10):105201. (Q2, I.F= 2.9)
595. Abouelregal AE, Ahmad H, Nofal TA, Abu-Zinadah H. Thermo-viscoelastic fractional model of rotating nanobeams with variable thermal conductivity due to mechanical and thermal loads. *Modern Physics Letters B*. 2021;35(18):2150297. (Q2, I.F=1.9)
596. Nawaz R, Zada L, Ullah F, Ahmad H, Ayaz M, Ahmad I, Nofal TA. An extension of optimal auxiliary function method to fractional order high dimensional equations. *Alexandria Engineering Journal*. 2021;60(5):4809-18. (Q1, I.F= 6.8)
597. Akbar MA, Akinyemi L, Yao SW, Jhangeer A, Rezazadeh H, Khater MM, Ahmad H, Inc M. Soliton solutions to the Boussinesq equation through sine-Gordon method and Kudryashov method. *Results in Physics*. 2021;29:104228. (Q1, I.F=5.3)
598. Akinyemi L, Şenol M, Rezazadeh H, Ahmad H, Wang H. Abundant optical soliton solutions for an integrable $(2+1)$ -dimensional nonlinear conformable Schrödinger system. *Results in Physics*. 2021;21:104177. (Q1, I.F=5.3)
599. Rezazadeh H, Jhangeer A, Tala-Tebue E, Hashemi MS, Sharif S, Ahmad H, Yao SW. New wave surfaces and bifurcation of nonlinear periodic waves for Gilson-Pickering equation. *Results in Physics*. 2021:104192. (Q1, I.F=5.3)
600. Rezazadeh H, Ullah N, Akinyemi L, Shah A, Mirhosseini SM, Chu YM, Ahmad H. Optical soliton solutions of the generalized non-autonomous nonlinear Schrödinger equations by the new Kudryashov's method. *Results in Physics*. 2021;24:104179. (Q1, I.F=5.3)
601. Chu YM, Shah NA, Ahmad H, Chung JD, Khaled SM. A comparative study of semi-analytical methods for solving fractional-order Cauchy-reaction diffusion equation. *Fractals*. 2021;29(6):2150143. (Q1, I.F= 4.7)
602. Mohammed WW, Ahmad H, Hamza AE, ALy ES, El-Morshedy M, Elabbasy EM. The exact solutions of the stochastic Ginzburg–Landau equation. *Results in Physics*. 2021;23:103988. (Q1, I.F=5.3)
603. Khan A, Farooq M, Nawaz R, Ayaz M, Ahmad H, Abu-Zinadah H, Chu YM. Analysis of couple stress fluid flow with variable viscosity using two homotopy-based methods. *Open Physics*. 2021;19(1):134-45. (Q3, I.F=1.9)

604. Khalil EM, Abdel-Khalek S, Al-Barakaty A, Albagami W, Ahmad H. Effect of a deformed cavity on a time-dependent quantum system containing an entangled two modes. *Results in Physics*. 2021;23:104039. (Q1, I.F=5.3)
605. Kamran M, Bashir Y, Farooq A, Shahzad A, Abd Allah AM, Alotaibi H, Ahmad H. Study on the helicoidal flow through cylindrical annuli with prescribed shear stresses. *Results in Physics*. 2021;23:103993. (Q1, I.F=5.3)
606. Abouelregal AE, Ahmad H, Gepreeld KA, Thounthong P. Modelling of vibrations of rotating nanoscale beams surrounded by a magnetic field and subjected to a harmonic thermal field using a state-space approach. *The European Physical Journal Plus*. 2021;136(3):1-23. (Q1, I.F= 3.4)
607. Rashid S, Parveen S, Ahmad H, Chu YM. New quantum integral inequalities for some new classes of generalized ψ -convex functions and their scope in physical systems. *Open Physics*. 2021;19(1):35-50. (Q3, I.F=1.9)
608. Menni Y, Ameer H, Yao SW, Amraoui MA, Lorenzini G, Ahmad H. Computational fluid dynamic simulations and heat transfer characteristic comparisons of various arc-baffled channels. *Open Physics*. 2021;19(1):51-60. (Q3, I.F=1.9)
609. Al Qurashi M, Rashid S, Sultana S, Ahmad H, Gepreel KA. New formulation for discrete dynamical type inequalities via h -discrete fractional operator pertaining to nonsingular kernel. *Mathematical Biosciences and Engineering*. 2021;18(2):1794-812. (Q3, I.F= 2.6)
610. Wang F, Zheng K, Ahmad I, Ahmad H. Gaussian radial basis functions method for linear and nonlinear convection–diffusion models in physical phenomena. *Open Physics*. 2021;19(1):69-76. (Q3, I.F=1.9)
611. Ahmad H, Seadawy AR, Ganie AH, Rashid S, Khan TA, Abu-Zinadah H. Approximate Numerical solutions for the nonlinear dispersive shallow water waves as the Fornberg–Whitham model equations. *Results in Physics*. 2021;22:103907. <https://doi.org/10.1016/j.rinp.2021.103907> (Q1, I.F=5.3)
612. Sarwar M, Ali A, Zada MB, Ahmad H, Nofal TA. Study of an implicit type coupled system of fractional differential equations by means of topological degree theory. *Advances in Difference Equations*. 2021;2021(1):1-5. (Q1, I.F= 4.1)
613. Ahmad I, Seadawy AR, Ahmad H, Thounthong P, Wang F. Numerical study of multi-dimensional hyperbolic telegraph equations arising in nuclear material science via an efficient local meshless method. *International Journal of Nonlinear Sciences & Numerical Simulation*. 2021;23(1):115-121. DOI: 10.1515/ijnsns-2020-0166 (Q2, I.F= 1.5)
614. Butt SI, Tariq M, Aslam A, Ahmad H, Nofal TA. Hermite–Hadamard Type Inequalities via Generalized Harmonic Exponential Convexity and Applications. *Journal of Function Spaces*. 2021;1-12. <https://doi.org/10.1155/2021/5533491> (Q2, I.F=1.9)
615. Aly AM, Mahmoud EM, Ahmad H, Yao SW. Double-Diffusive of a Nanofluid in a Rectangle-Shape Mounted on a Cavity Saturated by Heterogeneous Porous Media. *Journal of Mathematics*. 2021;1-14. [doi: 10.1155/2021/6650011](https://doi.org/10.1155/2021/6650011) (Q1, I.F= 1.4)
616. Alam MK, Memon KN, Siddiqui AM, Shah SF, Farooq M, Ayaz M, Nofal TA, Ahmad H. Modeling and analysis of high shear viscoelastic Ellis thin liquid film phenomena. *Physica Scripta*. 2021;96(5):055201. <https://doi.org/10.1088/1402-4896/abe4f2> (Q2, I.F= 2.9)

617. Khan ZA, Ahmad H. Qualitative properties of solutions of fractional differential and difference equations arising in physical models. *Fractals*. 2021;29(5):2140024. <https://doi.org/10.1142/S0218348X21400247> (Q1, I.F= 4.7)
618. Md. Fayz-Al-Asad, Md. Nur Alam, Hijaz Ahmad, M.M.A. Sarker, M.D. Alsulami, Khaled A. Gepreel, Impact of a Closed Space Rectangular Heat Source on Natural Convective Flow through Triangular Cavity, *Results in Physics*, 2021;23:104011. <https://doi.org/10.1016/j.rinp.2021.104011>. (Q1, I.F=5.3)
619. Khan MN, Ahmad I, Akgül A, Ahmad H, Thounthong P. Numerical solution of time-fractional coupled Korteweg–de Vries and Klein–Gordon equations by local meshless method. *Pramana-Journal of Physics*. 2021;95(1):1-3. (Q3, I.F= 2.8)
620. Ivanov B, Stanimirović PS, Shaini BI, Ahmad H, Wang MK. A Novel Value for the Parameter in the Dai-Liao-Type Conjugate Gradient Method. *Journal of Function Spaces*. 2021;1-10. <https://doi.org/10.1155/2021/6693401> (Q2, I.F=1.9)
621. Rashid S, Butt SI, Kanwal S, Ahmad H, Wang MK. Quantum Integral Inequalities with Respect to Raina's Function via Coordinated Generalized-Convex Functions with Applications. *Journal of Function Spaces*. 2021;1-16. <https://doi.org/10.1155/2021/6631474> (Q2, I.F=1.9)
622. Sohail A, Iftikhar M, Arif R, Ahmad H, Gepreel KA, Iftikhar S. Dengue control measures via cytoplasmic incompatibility and modern programming tools. *Results in Physics*. 2021;21:103819. <https://doi.org/10.1016/j.rinp.2021.103819> (Q1, I.F=5.3)
623. Rashid U, Liang H, Ahmad H, Abbas M, Iqbal A, Hamed YS. Study of (Ag and TiO₂)/water nanoparticles shape effect on heat transfer and hybrid nanofluid flow toward stretching shrinking horizontal cylinder. *Results in Physics*. 2021;21:103812. <https://doi.org/10.1016/j.rinp.2020.103812> (Q1, I.F=5.3)
624. Adda, A., Bezari, S., Salmi, M., Lorenzini, G., Laidi, M., Hanini, S., Maouedj, R., Menni, Y., Ameer, H., Ahmad, H. Investigation of the efficiency of small-scale NF/RO seawater desalination by using artificial neural network modeling. *International Journal of Design & Nature and Ecodynamics*, 2021, 16(3), 293-299. <https://doi.org/10.18280/ijdne.160307> (Q3, C.S= 1.5)
625. Tollu DT, Yalçinkaya İ, Ahmad H, Yao SW. A detailed study on a solvable system related to the linear fractional difference equation. *Mathematical Biosciences and Engineering*. 2021;18(5):5392-408. (Q3, I.F= 2.6)
626. Naima K, Menni Y, Alliche M, Lorenzini G, Ahmad H, Liaqid A. Effect of EGR on Performances and Emissions of DI Diesel Engine Fueled with Waste Plastic Oil: CDF Approach. In *Annales de Chimie-Science des Matériaux* 2021, 45(3), 217-223. (Q4, C.S= 0.2)
627.] Boursas A, Salmi M, Lorenzini G, Ahmad H, Menni Y, Fridja D, Chebbi R, Fadel A, Aidi A, Sahdev S, Kumar H. Enhanced Heat Transfer by Oil/Multi-Walled Carbon Nano-Tubes Nanofluid. In *Annales de Chimie-Science des Matériaux* 2021, 45 (2), 93-103. (ESCI)
628. Chekchek, B., Salmi, M., Boursas, A., Lorenzini, G., Ahmad, H., Menni, Y., Ameer, H., Merrah, M., Fridja, D. (2021). Experimental study of the efficiency of a solar water heater construction from recycled plastic bottles. *International Journal of Design & Nature and Ecodynamics*, 16(2), 121-126. <https://doi.org/10.18280/ijdne.160201> (ESCI)
629. Rachedi, M., Merad, A., Lorenzini, G., Ahmad, H., Menni, Y., Ameer, H., Sifi, I. (2021). Effect of the properties of chalcopyrite semiconductors on the physical and optical parameters of cell layers with CIGS.

Revue des Composites et des Matériaux Avancés-Journal of Composite and Advanced Materials, 31 (2), 65-72 (ESCI)

630. Bouziane A, Bouchiha D, Rebhi R, Lorenzini G, Doumi N, Menni Y, Ahmad H. ARALD: Arabic Annotation Using Linked Data. *Ingénierie des Systèmes d'Information*. 2021;26(2).(ESCI)
631. Moaaz O, Muhib A, Muhsin W, Qaraad B, Ahmad H, Yao SW. Oscillation behavior for neutral delay differential equations of second-order. *Mathematical Biosciences and Engineering*. 2021;18(4):4390-401. (Q3, I.F= 2.6)
632. Tabassum MF, Akram S, Mahmood-ul-Hassan S, Karim R, Naik PA, Farman M, Yavuz M, Ahmad H. Differential gradient evolution plus algorithm for constraint optimization problems: A hybrid approach. *An International Journal of Optimization and Control: Theories & Applications (IJOCTA)*. 2021;11(2):158-77. (Q3, C.S= 1.2)
633. Farooq A, Kamran M, Bashir Y, Ahmad H, Shahzad A, Chu YM. On the flow of MHD generalized maxwell fluid via porous rectangular duct. *Open Physics*. 2020;18(1):989-1002. (Q3, I.F=1.9)
634. Hadidi N, Rebhi R, Bennacer R, Menni Y, Ameer H, Lorenzini G, Gepreel KA, Ahmad H. Thermosolutal natural convection across an inclined square enclosure partially filled with a porous medium. *Results in Physics*. 2021;21:103821. <https://doi.org/10.1016/j.rinp.2021.103821> (Q1, I.F=5.3)
635. Gaber A, Ahmad H. SOLITARY WAVE SOLUTIONS FOR SPACE-TIME FRACTIONAL COUPLED INTEGRABLE DISPERSIONLESS SYSTEM VIA GENERALIZED KUDRYASHOV METHOD. *Facta Universitatis, Series: Mathematics and Informatics*. 2021;35(5):1439-49. (Q4, C.S= 0.1)
636. Li JF, Ahmad I, Ahmad H, Shah D, Chu YM, Thounthong P, Ayaz M. Numerical solution of two-term time-fractional PDE models arising in mathematical physics using local meshless method. *Open Physics*. 2020;18(1):1063-72. (Q3, I.F=1.9)
637. Yokuş A, Durur H, Nofal TA, Abu-Zinadah H, Tuz M, Ahmad H. Study on the applications of two analytical methods for the construction of traveling wave solutions of the modified equal width equation. *Open Physics*. 2020;18(1):1003-10. (Q3, I.F=1.9)
638. Yusuf, A., Sulaiman, T.A., Khalil, E.M., Bayram, M. and Ahmad, H., Construction of multi-wave complexiton solutions of the Kadomtsev-Petviashvili equation via two efficient analyzing techniques. *Results in Physics*, 2020;21:103775. <https://doi.org/10.1016/j.rinp.2020.103775> (Q1, I.F=5.3)
639. Abouelregal, A.E., Moustapha, M.V., Nofal, T.A., Rashid, S. and Ahmad, H., Generalized thermoelasticity based on higher-order memory-dependent derivative with time delay. *Results in Physics*. 2020;20:103705. <https://doi.org/10.1016/j.rinp.2020.103705> (Q1, I.F=5.3)
640. Zada, L., Nawaz, R., Ayaz, M., Ahmad, H., Alrabaiah, H. and Chu, Y.M., New algorithm for the approximate solution of generalized seventh order Korteweg-Devries equation arising in shallow water waves. *Results in Physics*. 2020;20:103744. <https://doi.org/10.1016/j.rinp.2020.103744> (Q1, I.F=5.3)
641. Akgül, A., Ahmad, H., Chu, Y.M. and Thounthong, P., A novel method for nonlinear singular oscillators. *Journal of Low Frequency Noise, Vibration and Active Control*. 2020;40(3):1363-1372. <https://doi.org/10.1177/1461348420980539> (Q2, I.F= 2.3)
642. Ismail, G.M., Abdl-Rahim, H.R., Ahmad, H. and Chu, Y.M., Fractional residual power series method for the analytical and approximate studies of fractional physical phenomena. *Open Physics*. 2020;18(1):799-805. (Q3, I.F=1.9)

643. Yalçinkaya, I., Ahmad, H., Tollu, D.T. and Li, Y.M., On a System of k-Difference Equations of Order Three. *Mathematical Problems in Engineering*. 2020;1-11. <https://doi.org/10.1155/2020/6638700> (Q3, C.S=2.6)
644. Sulaiman TA, Yusuf A, Abdel-Khalek S, Bayram M, Ahmad H. Nonautonomous complex wave solutions to the $(2+1)$ -dimensional variable-coefficients nonlinear Chiral Schrödinger equation. *Results in Physics*. 2020;19:103604. <https://doi.org/10.1016/j.rinp.2020.103604>. (Q1, I.F=5.3)
645. Khan, Z.A., Ahmad, H., Rashid, S., Kaynak, K. and Wang, M.K.. Some Nonlinear Integral Inequalities Connected with Retarded Terms on Time Scales. *Journal of Function Spaces*, 2020;1-10. (Q2, I.F=1.9)
646. Ahmad, I., Ahmad, H., Inc, M., Yao, S.-W. & Almohsen, B., Application of local meshless method for the solution of two term time fractional-order multi-dimensional PDE arising in heat and mass transfer, *Thermal Science*, 2020;24:95–105. doi:10.2298/TSCI20S1095A. (Q3, I.F=1.7)
647. Noor, M. et al., Analytical solutions to contact problem with fractional derivatives in the sense of Caputo, *Thermal Science*, 2020;24:313–323. doi:10.2298/TSCI20S1313N. (Q3, I.F=1.7)
648. Santra, S. S., Bazighifan, O., Ahmad, H. & Chu, Y.-M., Second-Order Differential Equation: Oscillation Theorems and Applications, *Mathematical Problems in Engineering*, 2020:1-6. doi:10.1155/2020/8820066. (Q3, C.S=2.6)
649. Bazighifan, O. & Ahmad, H., Asymptotic Behavior of Solutions of Even-Order Advanced Differential Equations, *Mathematical Problems in Engineering*, 2020:1-7. doi:10.1155/2020/8041857(Q3, C.S=2.6)
650. Rashid, S., Ahmad, H., Khalid, A. & Chu, Y.-M., On Discrete Fractional Integral Inequalities for a Class of Functions, *Complexity*, 2020:1-13. doi:10.1155/2020/8845867. (Q2, I.F=2.3)
651. Abouelregal, A. E. & Ahmad, H., Thermodynamic modeling of viscoelastic thin rotating microbeam based on non-Fourier heat conduction, *Applied Mathematical Modelling*, 2020;91:973-988.(Q1, I.F= 5.0)
652. Abouelregal, A. E. & Ahmad, H., Response of thermoviscoelastic microbeams affected by the heating of laser pulse under thermal and magnetic fields, *Physica Scripta*, 2020;95(12):125501. doi:<https://doi.org/10.1088/1402-4896/abc03d>. (Q2, I.F= 2.9)
653. Soleiman, A., Abouelregal, A. E., Ahmad, H. & Thounthong, P., Generalized thermoviscoelastic model with memory dependent derivatives and multi-phase delay for an excited spherical cavity, *Physica Scripta*, 2020;95(11):115708. doi: <https://doi.org/10.1088/1402-4896/abfbcb>. (Q2, I.F= 2.9)
654. Ahmad, H., Khan, T. A., Ahmad, I., Stanimirović, P. S. & Chu, Y.-M., A new analyzing technique for nonlinear time fractional Cauchy reaction-diffusion model equations, *Results in Physics*, 2020;19:103462. doi: <https://doi.org/10.1016/j.rinp.2020.103462>. (Q1, I.F=5.3)
655. Ahmad, H., Akgül, A., Khan, T. A., Stanimirović, P. S. & Chu, Y.-M., New Perspective on the Conventional Solutions of the Nonlinear Time-Fractional Partial Differential Equations, *Complexity*, 2020:1-10. doi:10.1155/2020/8829017. (Q2, I.F=2.3)
656. Ahmad, H., Khan, T. A., Stanimirović, P. S., Chu, Y.-M. & Ahmad, I., Modified Variational Iteration Algorithm-II: Convergence and Applications to Diffusion Models, *Complexity*, 2020;1-14. doi:10.1155/2020/8841718. (Q2, I.F=2.3)
657. Ahmad I, Ahmad H, Abouelregal AE, Thounthong P, Abdel-Atay M. Numerical study of integer-order hyperbolic telegraph model arising in physical and related sciences. *The European Physical Journal Plus*.2020;135:759. <https://doi.org/10.1140/epjp/s13360-020-00784-z> (Q1, I.F= 3.4)

658. Abouelregal, A. E., Yao, S.-W. & Ahmad, H., Analysis of a functionally graded thermopiezoelectric finite rod excited by a moving heat source, Results in Physics, 2020;19:103389. doi:<https://doi.org/10.1016/j.rinp.2020.103389>. (Q1, I.F=5.3)
659. Shakeel, M. et al., Meshless Technique for the Solution of Time-Fractional Partial Differential Equations Having Real-World Applications, Journal of Function Spaces, 2020:1-17. doi:10.1155/2020/8898309. (Q2, I.F=1.9)
660. Yokus, A., Durur, H., Ahmad, H., Thounthong, P. & Zhang, Y.-F., Construction of exact traveling wave solutions of the Bogoyavlenskii equation by $(G'/G, 1/G)$ -expansion and $(1/G')$ -expansion techniques, Results in Physics, 2020;19:103409. doi:<https://doi.org/10.1016/j.rinp.2020.103409>. (Q1, I.F=5.3)
661. Inc M, Khan MN, Ahmad I, Yao SW, Ahmad H, Thounthong P. , Analysing time-fractional exotic options via efficient local meshless method, Results in Physics, 2020;19:103385. doi:<https://doi.org/10.1016/j.rinp.2020.103385>. (Q1, I.F=5.3)
662. Abouelregal AE, Ahmad H, Yao SW. Functionally Graded Piezoelectric Medium Exposed to a Movable Heat Flow Based on a Heat Equation with a Memory-Dependent Derivative. Materials. 2020;13(18):3953 (Q1, I.F=3.4)
663. Abdel-Khalek S, Abo-Dahab SM, Ragab M, Rawa M, Ahmad H. Engineering entanglement, geometric phase, and quantum Fisher information of a three-level system with energy dissipation. Mathematical Methods in the Applied Sciences. 2020;44(16):12120-12128. <https://doi.org/10.1002/mma.6781> (Q1, I.F= 2.9)
664. Abdel-khalek S, Alhag A, Abo-Dahab SM, Ragab M, Ahmad H. Atomic Fisher information and entanglement forecasting for quantum system based on artificial neural network and time series model. International Journal of Quantum Chemistry 2020;121(4):e26446. <https://doi.org/10.1002/qua.26446> (Q2, I.F= 2.2)
665. Akgül A. and Ahmad H., Reproducing Kernel Method for Fangzhu's Oscillator for Water Collection from Air, Mathematical Methods in the Applied Sciences. 2020, DOI:10.1002/mma.6853 (Q1, I.F= 2.9)
666. Ahmad H, Khan TA, Yao SW. An efficient approach for the numerical solution of fifth-order KdV equations. Open Mathematics. 2020;18(1):738-48. (Q2, I.F= 1.7)
667. Ahmad I, Ahmad H, Thounthong P, Chu YM, Cesarano C. Solution of Multi-Term Time-Fractional PDE Models Arising in Mathematical Biology and Physics by Local Meshless Method. Symmetry. 2020 ;12(7): 1195. (Q2, I.F=2.7)
668. Shah, N.A., Ahmad, I., Omar, B., Abouelregal, A.E. and Ahmad, H., Multistage optimal homotopy asymptotic method for the nonlinear riccati ordinary differential equation in nonlinear physics. Applied Mathematics & Information Sciences. 2020;14(6):1-7. (Q3, C.S=1.2)
669. Ahmad I, Khan MN, Inc M, Ahmad H, Nisar KS. Numerical simulation of simulate an anomalous solute transport model via local meshless method. Alexandria Engineering Journal. 2020;59(4):2827-2838 (Q1, I.F= 6.8)
670. Abouelregal A, Ahmad H. A Modified Thermoelastic Fractional Heat Conduction Model with A Single-Lag and Two Different Fractional-Orders. Journal of Applied and Computational Mechanics. 2020;7(3):1676-1686. (Q1, C.S=3.0)

671. Ahmad H, Khan TA, Durur H, Ismail GM, Yokus A. Analytic approximate solutions of diffusion equations arising in oil pollution. *Journal of Ocean Engineering and Science*. 2020;6(1):62-69. DOI: [10.1016/j.joes.2020.05.002](https://doi.org/10.1016/j.joes.2020.05.002) (Q1, I.F=7.1)
672. Yokus A, Durur H, Ahmad H, Yao SW. Construction of Different Types Analytic Solutions for the Zhiber-Shabat Equation. *Mathematics*. 2020;8(6):908. Q1, I.F= 2.4)
673. Bazighifan O, Ahmad H, Yao SW. New Oscillation Criteria for Advanced Differential Equations of Fourth Order. *Mathematics*. 2020;8(5):728. Q1, I.F= 2.4)
674. Ahmad H, Khan TA, Stanimirovic PS, Ahmad I. Modified Variational Iteration Technique for the Numerical Solution of Fifth Order KdV Type Equations. *Journal of Applied and Computational Mechanics*. 2020;6(SI):1220-1227 (Q1, C.S=3.0)
675. Nawaz M, Ahmad I, Ahmad H. A radial basis function collocation method for space-dependent inverse heat problems. *Journal of Applied and Computational Mechanics*. 2020;6(SI):1187–1199. (Q1, C.S=3.0)
676. Ahmad H, Seadawy AR, Khan TA. Study on numerical solution of dispersive water wave phenomena by using a reliable modification of variational iteration algorithm. *Mathematics and Computers in Simulation*. 2020;177:13-23 (Q1, I.F=4.6)
677. Fakhar-e-Alam, M. et al., Synergistic effect of TEMPO-coated TiO₂ nanorods for PDT applications in MCF-7 cell line model, *Saudi Journal of Biological Sciences*, 2020,;27(12):3199-3207. doi:<https://doi.org/10.1016/j.sjbs.2020.09.027>. (Q2, I.F=4.4)
678. Iqbal, Seemab, et al. Mathematical modeling and experimental analysis of the efficacy of photodynamic therapy in conjunction with photo thermal therapy and PEG-coated Au-doped TiO₂ nanostructures to target MCF-7 cancerous cells. *Saudi Journal of Biological Sciences*. 2020;28(2):1226-1232. (Q2, I.F=4.4)
679. Atif, M., et al. Manganese-doped cerium oxide nanocomposite as a therapeutic agent for MCF-7 adenocarcinoma cell line. *Saudi Journal of Biological Sciences*. 2020;28(2):1233-1238. (Q2, I.F=4.4)
680. Ahmad H, Khan TA, Yao S. Numerical solution of second order Painlevé differential equation. *Journal of Mathematics and Computer Science*. 2020;21(2):150-157. (Q3, C.S= 0.6)
681. Srivastava MH, Ahmad H, Ahmad I, Thounthong P, Khan NM. Numerical simulation of three-dimensional fractional-order convection-diffusion PDEs by a local meshless method. *Thermal Science*. 2020(00):210. DOI: [10.2298/TSCI200225210S](https://doi.org/10.2298/TSCI200225210S) (Q3, I.F=1.7)
682. Abo-Dahab SM, Abouelregal AE, Ahmad H. Fractional heat conduction model with phase lags for a half-space with thermal conductivity and temperature dependent. *Mathematical Methods in the Applied Sciences*. 2020. DOI:10.1002/mma.6614 (Q1, I.F= 2.9)
683. Khan MN, Hussain I, Ahmad I, Ahmad H. A local meshless method for the numerical solution of space-dependent inverse heat problems. *Mathematical Methods in the Applied Sciences*. 2020. DOI:10.1002/mma.6439 (Q1, I.F= 2.9)
684. Ahmad H, Seadawy AR, Khan TA, Thounthong P. Analytic approximate solutions for some nonlinear Parabolic dynamical wave equations. *Journal of Taibah University for Science*. 2020;14(1):346-58. (Q2, I.F=3.3)
685. Ahmad H, Seadawy AR, Khan TA. Numerical solution of Korteweg–de Vries-Burgers equation by the modified variational iteration algorithm-II arising in shallow water waves. *Physica Scripta*. 2020; 95(4):045210. (Q2, I.F= 2.9)

686. Ahmad H, Khan TA. Variational iteration algorithm I with an auxiliary parameter for the solution of differential equations of motion for simple and damped mass–spring systems. *Noise & Vibration Worldwide*. 2020;51(1-2):12-20. (ESCI)
687. Ahmad H, Khan TA, Cesarano C. Numerical solutions of coupled Burgers' equations. *Axioms*. 2019; 8(4):119. (Q2, I.F= 2.0)
688. Ahmad H, Khan TA. Variational iteration algorithm-I with an auxiliary parameter for wave-like vibration equations. *Journal of Low Frequency Noise, Vibration and Active Control*. 2019;38(3-4):1113-24. (Q2, I.F= 2.3)
689. Nadeem M, Li F, Ahmad H. Modified Laplace variational iteration method for solving fourth-order parabolic partial differential equation with variable coefficients. *Computers & Mathematics with Applications*. 2019;78(6):2052-62. (Q1, I.F= 2.9)

8. Art and Design Activities

9. Projects

International Projects	
2025	Research Supporting Project number (RSP2025R158), King Saud University, Saudi Arabia
2025	Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, under grant no. (GPIP: 1434–305–2024)
2024	Ministry of Education and Deanship of Scientific Research (DSR), King Abdulaziz University (KAU), Jeddah, Saudi Arabia. grant no. (IFPDP-293-22).
2024	Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, Saudi Arabia, grant no. (GPIP: 1877-130-2024)
2023	University of Jeddah, Jeddah, Saudi Arabia. Grant No. (UJ-21-DR-30).
2023	Deanship of Scientific Research at Imam Mohammad Ibn Saud Islamic University (IMSIU) (grant number IMSIU-RP23059)
2023	Deanship of Scientific Research at Imam Mohammad Ibn Saud Islamic University (IMSIU) (grant number IMSIU-RP23092)
2023	Research Supporting Project number (RSP2024R167), King Saud University, Riyadh, Saudi Arabia
2023	Researchers Supporting Project number (RSP2023R401), King Saud University, Riyadh, Saudi Arabia
2022	Deanship of Scientific Research at King Khalid University under Grant number RGP. 2/112/43
2022	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (IFPIP-1582-130-1443).
2022	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (D-297-305-1442).
2021	Deanship of Scientific Research at King Khalid University under Grant number RGP. 1/387/42
2021	Deanship of Scientific Research at King Khalid University Saudi Arabia under Grant number RGP. 1/155/42
2021	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (D-007-130-1443).
2021	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (FP-096-43).
2021	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (D-006-130-1443).
2020	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (D-603-135-1441).
2020	Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant No. (D-591-130-1441).

10. Administrative Responsibilities

11. Memberships in Scientific and Professional Organizations

12. Awards and Honors

- Obada Prize 2025, awarded by the Obada Prize Committee for outstanding academic and research contributions
- Global Srinivasa Ramanujan Award in Mathematical Sciences – 2025. Awarded by the Chendur Research Foundation for outstanding contributions to the mathematical sciences. Presented at the Global Conference on Computational Mathematics and Intelligent Engineering Applications (GCCMIEA - 2025), Thammasat University, Thailand.
- Near East University Most Influential Researcher Award, Near East University, 2024
- Near East University Best Academic Performance Award, Near East University, 2024
- Near East University Publication Award, Near East University, 2024
- Near East University Publication Honor Award, Near East University, 2024
- Near East University Most Influential Researcher Award, Near East University, 2023
- Near East University Best Academic Performance Award, Near East University, 2023
- Near East University Publication Award, Near East University, 2023
- Near East University Publication Honor Award, Near East University, 2023
- Honorary Professor degree from Azerbaijan University, Jeyhun Hajibeyli street, Baku Azerbaijan
- World's Top 2% Most Cited Scientist Single Year 2022, 2023, 2024 and 2025 (Stanford University)
- Ranked #2 in Cyprus and the top researcher at Near East University according to the 2024 Edition of Research.com's Ranking of Best Scientists in Mathematics
- Hifz ul Quran & Tajvid ul Quran from Daral Uloom Rehmania, Lahor, Swabi, KPK, PK

13. Scientific Conferences/Seminars/Symposium Attended

- **Invited Speaker**, Global Conference on Computational Mathematics and Intelligent Engineering Applications (GCCMIEA-2025)
Delivered an invited talk titled “Optimizing Engineering Challenges Using Advanced Numerical Methods Combined with Machine Learning.”
Held at Thammasat University, Rangsit Campus, Pathum Thani, Thailand (Hybrid Mode), December 27–29, 2025.
- **Keynote Speaker**, 7th Borobudur International Symposium 2025
(in conjunction with the 3rd International Conference on Environment, Green Technology and Digital Society)
Keynote address titled “Efficient Variational Iteration Methods for Engineering and Environmental PDE Models.”
Universitas Muhammadiyah Magelang, Indonesia, December 10, 2025.
- **Invited Speaker**, International Conference on *Recent Trends & Innovations in Mathematics, Statistics and Scientific Computing (IC-RTIMSSC-2025)*
Delivered an invited talk titled “Variational Iteration Algorithms for Partial Differential Equations.”
Organized by the Department of Mathematics & Department of Computer Science and Engineering, IGU Meerpur, India, in collaboration with Rao Mohar Singh Chair and the Indian Association for Reliability & Statistics (IARS), March 5–6, 2025.
- Member of Scientific/Organizing Committee of International Conference on Mathematics and Applied Data Science (ICMADS'25), Konya, Türkiye
<https://icmads.org/committees/>
- Technical Program Committee (TPC) Member of the 11th International Conference on Fuzzy Systems and Data Mining (FSDM 2025), Chongqing, China
<https://www.fsdmconf.org/TPC>
- Member of Organizing Committee of International Scientific Conference on Advances in

Applied Physics and Mathematics (AAPM-2023), Tashkent, Uzbekistan

<http://aapm-2023.online/committees>

- Member of Organizing Committee of the 10th International Conference on Fuzzy Systems and Data Mining (FSDM 2024), Matsue, Japan
<http://www.fsdmconf.org/TPC>
- Technical Program Committee (TPC) Member of the 9th International Conference on Fuzzy Systems and Data Mining (FSDM 2023), Chongqing, China
<http://www.fsdmconf.org/TPC>
- Scientific Committee Member of 2nd International Conference on Computations for Science and Engineering, Rimini Riviera, Italy
<https://events.unibo.it/iccse/scientific-committee>
- Scientific Committee Member of the 2nd International Meet on Astronomy and Astrophysics, Brussels, Belgium
<https://www.albedomeetings.com/2023/astromet/committee>
- Member of international Program Committee and Invited speaker at the International Conference on Innovations in Energy Engineering & Cleaner Production (IEECP'22), Oxford, United Kingdom
<https://ieecp-conference.org/ieecp22-committees/#international-program-committee>
- Scientific Committee Member and Invited speaker at the 2nd International Meet & Expo on Semiconductors, Optoelectronics and Nanostructures (SEMICONMEET2022), Barcelona, Spain.
<https://www.albedomeetings.com/semiconmeet/2022/committee.php>
- Scientific Committee Member of the 1st International Congress on Natural Sciences (ICNAS-2021), Ataturk University Erzurum, Turkey
<https://icnas2021.atauni.edu.tr/index.php/committee-and-boards>
- Scientific Committee Member of the 1st International Symposium on Recent Advances in Fundamental And Applied Sciences Atatürk University, Erzurum, Turkey
<https://isfas2021.atauni.edu.tr/index.php/committee-and-boards>
- Scientific Committee Member of the Academia International Conference on Mathematics and Mathematics Education (AICMME-2021), SIIRT University, Turkey
<https://www.aicmath.com/committees>

14. Membership in Editorial Boards of Scientific Journals

Editor as a Lead Guest Editor

- Special Issue: Theory, Applications, and Numerics of Fractional-Order Dynamical Systems ([Link](#))
Journal: FRACTALS Complex Geometry, Patterns, and Scaling in Nature and Society (Q1, having 4.7 impact factor)
- Special Issue: Symmetry in Fractional Calculus: Advances and Applications ([Link](#))
Journal: Symmetry (Q2, having 2.940 impact factor)
- Special Issue: Theoretical and Numerical Study of Nonlinear Models (Dynamical Systems) ([Link](#))
Journal: Mathematical Modelling and Control
- Special Issue: Importance of Fractional Order Derivatives in Real-World Applications: New Aspects and Understanding the Natural Phenomena ([Link](#))
Journal: Fractal and Fractional (Q1, having 3.313 impact factor)
- Special Issue: Special Issue on Nanofluids: Synthesis, Characterization, and Applications ([Link](#))
Journal: Open Physics (Q3, having 1.9 impact factor)
- Special Issue: Heat Transfer Reinforcement Techniques in Heat Exchangers ([Link](#))
Journal: Applied Sciences (Q2, having 2.679 impact factor)
- Special Issue: Recent Advances in Solar Energy Collectors: Models and Applications ([Link](#))
Journal: Energies (Q1, having 3.004 impact factor)
- Special Issue: Dedicated to Professor Ji-Huan He on the Occasion of His 55th Birthday

([Link](#))

Journal: Axioms (Q2, 1.824)

- Special Issue: Role of Computer in Modelling & Solving Real-World Problems ([Link](#))
- Journal: Computers, Materials & Continua (Q1, having 4.89 impact factor)

15. Editor as a Permanent Editorial Board Member

2025–present	Journal of Applied Mathematics and Computational Mechanics
2025–present	RIMNI-An International Journal of Numerical Methods for Calculation and Design in Engineering
2025-present	Journal of Applied Biomaterials & Functional Materials
2025–present	Sahand Communications in Mathematical Analysis
2024–present	Journal of Computational Applied Mechanics
2024–present	Palestine Journal of Mathematics
2024–present	Advances in Decision Sciences
2024–present	Sigmae
2023–present	South African Journal of Chemical Engineering
2023-Present	International Journal of Heat and Technology
2023-Present	Journal of Contemporary Applied Mathematics
2023–present	Advanced Mathematical Models & Applications
2023–present	Chaos Theory and Applications
2023–present	Contemporary Mathematics
2023–present	Premier Journal of Science
2023–present	Babylonian Journal of Mathematics
2023–present	Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics
2023–present	Iraqi Journal for Computer Science and Mathematics
2020–present	TWMS Journal of Applied and Engineering Mathematics
2020–present	Facta Universitatis, Series: Mathematics and Informatics
2020–present	Journal of Scientific, Technology and Engineering Research
2020–present	Sigma Journal of Engineering and Natural Sciences
2021–present	International Advanced Researches and Engineering Journal
2021–present	Journal of Mathematical Analysis
2022-Present	Mathematical Modelling and Control
2022-Present	Mechanical Engineering for Society and Industry
2022-Present	International Advanced Researches and Engineering Journal
2022-Present	International Journal of Engineering Design and Technology
2022-Present	Journal of Mathematical Analysis and Modeling
2025-Present	Transactions in Optics and Photonics
2025-Present	Journal of Numerical Simulations in Physics and Mathematics
2024-Present	NATURENGS
2024-Present	Journal of Studies in Science and Engineering