

## CURRICULUM VITAE

### PERSONAL DATA

|                    |                                |
|--------------------|--------------------------------|
| <b>Name</b>        | Muhammad Ramzan Muhammad Nazir |
| <b>Nationality</b> | Pakistan                       |
| <b>Position</b>    | Professor                      |
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### EDUCATION

| <b>Year</b> | <b>Academic Degree</b> | <b>Institution</b>      |
|-------------|------------------------|-------------------------|
| 1989        | Bachelors              | Punjab University       |
| 1993        | Masters                | Punjab University       |
| 2010        | Doctorate              | Quaid-i-Azam University |

### WORK EXPERIENCE

| <b>Period</b> | <b>Position</b>                | <b>Address</b> |
|---------------|--------------------------------|----------------|
| 1994-2000     | Lieutenant                     | Pakistan Navy  |
| 2000-2010     | Bahria University              | Pakistan       |
| 2010-2014     | Mohammad Ali Jinnah University | Pakistan       |
| 2014-2016     | Majmaah University             | Saudi Arabia   |
| 2016-2025     | Bahria University              | Pakistan       |

### RESEARCH INTERESTS

Fluid Mechanics, Wave Mechanics

## PUBLICATIONS

2025

1. Analyzing higher order chemical reaction and variable characteristics impact on a Casson nanofluid flow over a cylinder with sinusoidal radius near a stagnation point, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2025), (Impact factor 2.3)  
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2. Analyzing the role of length and radius of MWCNTs in a nanofluid flow influenced by variable thermal conductivity and viscosity considering Marangoni convection, **Open Physics**, (2025), (Impact factor 1.8)  
\***Ramzan, M.**, Alazman, I., Shahmir, N., & Koh, W. S.
3. Sutterby nanofluid flow in a Darcy–Forchheimer permeable medium with chemical reaction and viscous dissipation effects: A nonsimilar solution, **Journal of Mathematics**, (2025), (Impact factor 1.3),  
\***Ramzan, M.**, Alkhrijah, Y., Shahmir, N., Alazman, I., Saeed, A. M., Bilal, M., & Koh, W. S.
4. Evaluating thermal conductivity of a buoyancy-driven hybrid nanofluid in a square cavity, **Journal of Thermal Analysis and Calorimetry**, (2025), (Impact factor 3.39),  
Shahmir, N., Alazman, I., Akram, J., & \***Ramzan, M.**
5. Heat transfer performance appraisal of hybrid and ternary nanofluid flows over a wedge considering viscous dissipation and quadratic thermal convection: Non-similar solution approach, **Advances in Mechanical Engineering**, (2025), (Impact factor 2.0),  
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6. Author Correction: Numerical treatment of radiative Nickel–Zinc ferrite-Ethylene glycol nanofluid flow past a curved surface with thermal stratification and slip conditions, **Scientific Reports**, (2025), (Impact factor 3.8),  
\***Ramzan, M.**, Gul, N., Chung, J. D., Kadry, S., & Chu, Y. M.
7. Morlet wavelet neural networks-based intelligent approach to analyze the impact of aligned magnetic field on a nanofluid thin film flow with irreversibility analysis and chemical reactions, **Journal of Mathematics**, (2025), (Impact factor 1.3),  
\***Ramzan, M.**, Zhou, X., Saeed, A. M., Saleel, C. A., Alazman, I., Koh, W. S., & Kadry, S.
8. Analyzing variable characteristics on a Newtonian fluid flow over a rotating sphere in a variable porous medium with entropy generation analysis, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2025), (Impact factor 2.3),  
\***Ramzan, M.**, Shaheen, N., Shahmir, N., Alshehri, M. H., Liu, C., & Kadry, S.
9. Unveiling nonlinear heat and convection phenomena in aligned magnetic fields: Insights into variable thermal conductivity and melting heat effects, **ZAMM-Journal of Applied**

- Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2025), (Impact factor 2.3),  
Bilal, M., Mahmoud, E. E., Mehmood, Y., **Ramzan, M.**, Abualnaja, K. M., & Malik, R.
10. Numerical study on flow and heat transfer characteristics of sodium alginate nanofluid in corrugated tubes containing porous medium, **Material Sciences**, Fu Genshuo , Liu Chunyan \* , Wei Zifeng , Liu Yanyi, **Ramzan, M.**
  11. Heat transfer analysis through the convective surface with magnetic dipole and activation energy, **Multidiscipline Modeling in Materials and Structures**, (2025), (Impact factor 1.7), Bilal, M., Saddiqa, A., Mehmood, Y., **Ramzan, M.**, & M. Abualnaja, K.
  12. A comparative analysis of nanoparticle aggregation and non-aggregation in a nanofluid flow over a cylinder influenced by prescribed surface temperature, **Multidiscipline Modeling in Materials and Structures**, (2025), (Impact factor 1.7), **Ramzan, M\***, Shaheen, N., Saleel, C. A., Alazman, I., Saeed, A. M., & Kadry, S.
  13. Two layer flow of mono and hybrid immiscible nanofluids in an inclined channel with quadratic thermal convection, **Numerical Heat Transfer, Part A: Applications**, (2025), (Impact factor 2.8), **Ramzan, M\***, Akram, J., Shahmir, N., Saleel, C. A., Kadry, S., & Sowayan, A. S.
  14. An exact solution for the entropy base flow of electroosmotic magneto-nanofluid through microparallel channel, **International Journal of Modern Physics B**, (2025), (Impact factor 2.6) Bilal, M., Lone, S. A., Anwar, S., Shahab, S., Fatima, S., **Ramzan, M.**, & Nadeem, M.
  15. MHD nanofluid flow over a thin needle: Impact of second-order slip and variable thermal properties, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2025), (Impact factor 2.3) Bilal, M., Batool, A., Mehmood, Y., & **Ramzan, M.**
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16. Influence of magnetic dipole and thermophoretic particle deposition on the flow of Reiner–Philippoff fluid with Thompson and Troian slip, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2024), (Impact factor 2.3) Li, S., Naseer, S., Shahmir, N., \***Ramzan, M.**, Alkarni, S., & Kadry, S.
  17. Numerical analysis of thermosolutal Marangoni convection, and non-linear heat generation flow of chemically reactive nanofluid through Darcy-Forchheimer media, **Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems**, (2024), (Impact factor 4.8) Bilal, M., Akram, T., Lone, S. A., Malik, A. Q., Mehmood, Y., & **Ramzan, M.**
  18. Analyzing variable characteristics effects on an unsteady hybrid nanofluid flow over a rotating

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20. Influence of inclined magnetic field and surface catalyzed reactions on a ternary hybrid nanofluid rotating flow with irreversibility analysis, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2024), (Impact factor 2.3)  
\***Ramzan, M.**, Akhter, H., Shahmir, N., Alkarni, S., Zhang, Y., & Kadry, S.
21. Impact of low oscillating magnetic field on ternary hybrid nanofluid flow between two spinning disks with Thompson and Troian slip and modified fourier's law, **Chemical Physics Letters**, (2024), (Impact factor 2.8)  
\***Ramzan, M.**, Khan, M. U., Shahmir, N., Alotaibi, H., Mehmood, T., Kadry, S., & Hussien, M.
22. Numerical simulation of a partially ionized Oldroyd-B nanofluid flow driven by two homocentric rotating disks with motile microorganisms, **Numerical Heat Transfer, Part A: Applications**, (2024), (Impact factor 2.0)  
\***Ramzan, M.**, Chaudhry, H., Shahmir, N., Alshehri, M. H., Bai, Y., & Kadry, S.
23. Electroosmotic effect on the flow of hybrid nanofluid containing para and ferri-magnetic nanoparticles through the micro-channel implementing Darcy law, **Numerical Heat Transfer, Part A: Applications**, (2024), (Impact factor 2.0)  
\***Ramzan, M.**, Akram, J., Shahmir, N., Saleel, C. A., S. Sowayan, A., & Kadry, S.
24. Three-dimensional transient multilayer heat conduction sphere comprising metallic particles, **Physica Scripta**, (2024), (Impact factor 2.6)  
Riasat, S., \***Ramzan, M.**, Alshahrani, S., Kumar, R. V., & Chandan, K.
25. Thompson and Troian slip effect on ternary nanofluid flow over a stretching surface influenced by induced magnetic field and surface catalyzed reaction, **Numerical Heat Transfer, Part A: Applications**, (2024), (Impact factor 2.0)  
\***Ramzan, M.**, Naseer, S., Shahmir, N., Alshehri, M. H., Liu, C., & Kadry, S.
26. Thermal performance appraisal of hybrid and nanofluid flow between a cone and a disk with variable thermal conductivity, viscous dissipation, and Joule heating, **International Journal of Modern Physics B**, (2024), (Impact factor 2.6)  
Li, S., Gul, H., \***Ramzan, M.**, Kadry, S., & Saleel, C. A.
27. Thermal inspection of hybrid nanofluid flows over a stretched cylinder at an oblique stagnation point with variable characteristics, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2024), (Impact factor 2.3)

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28. Buoyancy driven bioconvective Casson nanofluid flow over a vertical stretching cylinder in Darcy–Forchheimer permeable medium with Arrhenius activation energy and chemical reaction, **Numerical Heat Transfer, Part A: Applications**, (2024), (Impact factor 2.0)  
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30. A non-similar solution to dissipative Eyring-Powell nanofluid flow over a nonlinear stretching surface with an inclined magnetic field and active/passive nanoparticles flux, **ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik**, (2024), (Impact factor 2.3)  
Liu, C., Shahmir, N., \***Ramzan, M.**, Alhuthali, A. M., Saleel, C. A., & Kadry, S.
31. Influence of the Reynolds viscosity model and induced magnetic field on a thin Casson fluid film flow between two rotating disks with cross-diffusion effects, **Numerical Heat Transfer, Part A: Applications**, (2024), (Impact factor 2.0)  
Li, S., Shahmir, N., \***Ramzan, M.**, Alshahrani, S., Kadry, S., & Alroobaea, R.
32. Impact of motile microorganisms on a Sutterby nanofluid flow over a rotating disk with Hall current and ion slip, **Numerical Heat Transfer, Part A: Applications**, (2024), (Impact factor 2.0)  
\***Ramzan, M.**, Shah, A. A., Shahmir, N., Alshahrani, S., & Kadry, S.
33. Impact of induced magnetic field on Darcy–Forchheimer nanofluid flows comprising carbon nanotubes with homogeneous-heterogeneous reactions, **Heliyon**, (2024) (Impact factor 4.0)  
Bashir, S., Almanjahie, I. M., \***Ramzan, M.**, Cheema, A. N., Akhtar, M., & Alshahrani, F.
34. An exact solution for the entropy base flow of electroosmotic magneto-nanofluid through microparallel channel, **International Journal of Modern Physics**, (2024) (Impact factor 1.7)  
Bilal, M., Lone, S. A., Anwar, S., Shahab, S., Fatima, S., **Ramzan, M.**, & Nadeem, M
35. Irreversibility analysis of radiative Williamson nanofluid flow with higher order chemical reaction and quadratic drag force over an extended surface: Non-similar computations, **Proceedings of the Institution of Mechanical Engineers, Part N**, (2024) (Impact factor 4.1)  
N Shaheen, \***M Ramzan**, CA Saleel, S Kadry
36. Analysis of Newtonian heating and surface catalyzed reaction in a trihybrid nanofluid flow across an expanding/shrinking cylinder with Thompson and Troian slip, **Proceedings of the Institution of Mechanical Engineers, Part N**, (2024) (Impact factor 4.1)  
N Shaheen, \***M Ramzan**, CA Saleel, S Kadry
37. Volumetric thermo-convective and stratified Prandtl fluid magnetized flow over an extended convectively inclined surface with chemically reactive species, **Physica Scripta**, (2024) (Impact factor 3.081)

S Bilal, A Ullah, P Kejia, **M Ramzan**, A Saleel C

38. Blasius–Rayleigh–Stokes nanofluid dusty flow influenced by Cattaneo–Christov double diffusion and melting heat transfer - Application of response surface methodology, **International Journal of Modern Physics**, (2024) (Impact factor 1.7)  
T Mehmood, \***M Ramzan**, CA Saleel, S Kadry
39. A comparative analysis of spherical and cylindrical shaped nanoparticles containing nanofluid flows with over a permeable rotating disk affected by nanoparticles radius and nanolayer, **2023, International Journal of Modern Physics**, (2024) (Impact factor 1.7)  
\***M Ramzan**, N Shahmir, S Kadry, CA Saleel
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40. Peristaltic Flow of Ethylene Glycol and Water Mixture-Based Hybrid Nanofluid in an Asymmetric Channel, **BioNanoScience**, (2023) (Impact factor 3.00)  
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41. Hall current and ion slip effects on a ternary hybrid nanofluid flow over a bidirectional surface with chemical reaction and Cattaneo–Christov heat flux, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
H Gul, \***M Ramzan**, CA Saleel, S Kadry
42. Thermophoretic particle deposition on double-diffusive Ree-Eyring fluid flow across two deformable rotating disks with Hall current and Ion slip, **Journal of Magnetism and Magnetic Materials**, (2023) (Impact factor 2.7)  
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43. A comparative assessment of mono and hybrid magneto nanofluid flow over a stretching cylinder in a permeable medium with generalized Fourier’s law, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
N Shahmir, \***M Ramzan**, CA Saleel, S Kadry
44. Cattaneo–Christov double diffusive non-Newtonian nanofluid flow over a rotating disk of variable thickness influenced by swimming microorganisms and velocity slip condition, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
S Alkarni, \***M Ramzan**, CA Saleel, S Kadry
45. A comparative analysis of ternary-hybrid nanofluid flows through a stretching cylinder influenced by an induced magnetic field with homogeneous–heterogeneous reactions, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
H Gul, \***M Ramzan**, CA Saleel, S Kadry
46. Comparative analysis of nanofluid flows in the dilating squeezing porous channel with thermal jump and slip conditions, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
S Alkarni, N Shahmir, \***M Ramzan**, S Kadry

47. Impact of induced magnetic field on ferromagnetic ternary and hybrid nanofluid flows with surface catalyzed reaction and entropy generation assessment, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
N Shahmir, \*M Ramzan, CA Saleel, S Kadry
48. Impact of viscous and ohmic dissipations on a chemically reactive Darcy–Forchheimer Prandtl nanofluid flow with multiple slips: Non-similar analysis, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
N Shaheen, M Ramzan\*, CA Saleel, S Kadry, AM Saeed
49. A hydrodynamic and hydromagnetic comparative analysis of triple diffusive nanofluid flow over a horizontal plate with quadratic mixed convection, **Journal of Central South University**, (2023), (Impact factor 2.982)  
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50. Impact of viscous and ohmic dissipations on a chemically reactive Darcy Forchheimer Prandtl nanofluid flow with multiple slips: Non-similar Analysis, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
N Shaheen, \*Ramzan, M., S Kadry, Saleel, C. A. M Abbas, Saleel, C. A. & Saeed, A. M.
51. A comparative analysis of dovetail and rectangular fins with insulated tips wetted with ZnO-SAE 50 nanolubricant for energy transfer process, **Case Studies in Thermal Engineering**, (2023), (Impact factor 6.8)  
Riasat, S., \*Ramzan, M., Saleel, C. A., El-Shorbagy, M. A., Kadry, S., Saeed, A. M., & Eldin, S. M.
52. Application of Corcione correlation in a nanofluid flow on a bidirectional stretching surface with Cattaneo–Christov heat flux and heat generation/absorption, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
\*Ramzan, M., Shaheen, N., Ghazwani, H. A. S., Elmasry, Y., & Kadry, S.
53. Analysis of Liquid Chromatography Considering a Linear Single-Component Heterogeneous-Type Reactive General Rate Model, **ACS Omega** (2023), (Impact factor 4.1)  
Alharbi, K. A. M., Bashir, S., \*Ramzan, M., Kadry, S., & Eldin, S. M.
54. Significance of Hall current and Ion slip in a three-dimensional Maxwell nanofluid flow over rotating disk with variable characteristics and gyrotactic microorganisms, **Numerical Heat Transfer, Part A: Applications**, (2023), (Impact factor 2.982)  
Ali, J., \*Ramzan, M., Saleel, C. A., Kadry, S., & Saeed, A. M.
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\*Ramzan, M., Shahmir, N., Saleel, C. A., Almusawa, Kadry, S., Eldin SM., & Saeed AM
58. Unsteady ternary hybrid-nanofluid flow over an expanding/shrinking cylinder with multiple slips: A Yamada-Ota model implementation, **Nanotechnology, (2023)**, (Impact factor 3.953)  
N Shaheen, \*Ramzan, M., S Kadry, M Abbas, & Saleel, C. A.
59. Hamilton–Crosser model impact for particle shape in a nanofluid flow influenced by variable thermal conductivity, **Numerical Heat Transfer, Part B: Fundamentals, (2023)**, (Impact factor 1.378)  
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60. Combined impacts of low oscillating magnetic field and Shliomis theory on mono and hybrid nanofluid flows with nonlinear thermal radiation, **Nanotechnology, (2023)**, (Impact factor 3.953)  
Alharbi, K. A. M., Shahmir, N., \*Ramzan, M., Kadry, S., & Saeed, A. M.
61. Comparative appraisal of mono and hybrid nanofluid flows comprising carbon nanotubes over a three-dimensional surface impacted by Cattaneo–Christov heat flux, **Scientific Reports, (2023)**, (Impact factor 4.997)  
Alharbi, K. A. M., \*Ramzan, M., Shahmir, N., Ghazwani, H. A. S., Elmasry, Y., Eldin, S. M., & Bilal, M.
62. Bioconvective radiative unsteady Casson nanofluid flow across two concentric stretching cylinders with variable viscosity and variable thermal conductivity, **Numerical Heat Transfer, Part A: Applications, (2023)**, (Impact factor 2.982)  
Alharbi, K. A. M., Shahmir, N., \*Ramzan, M., Almusawa, M. Y., & Kadry, S.
63. A comparative analysis of hybrid nanofluid flow through an electrically conducting vertical microchannel using Yamada-Ota and Xue models, **Numerical Heat Transfer, Part A: Applications, (2023)**, (Impact factor 2.982)  
Alharbi, K. A. M., Ali, J., \*Ramzan, M., Kadry, S., & Saeed, A. M.
64. Impact of homogeneous–heterogeneous reactions on nanofluid flow through a porous channel–A Tiwari and Das model application, **Numerical Heat Transfer, Part A: Applications, (2023)**, (Impact factor 2.982)  
\*Ramzan, M., Chaudhry, H., Ghazwani, H. A. S., Kadry, S., Shahmir, N., Abbas, M., & Saleel, C. A.
65. Bioconvective unsteady fluid flow across concentric stretching cylinders with thermal-diffusion and diffusion-thermo effects, **Numerical Heat Transfer, Part A: Applications, (2023)**, (Impact factor 2.982)  
Shaheen, N., \*Ramzan, M., Kadry, S., Abbas, M., & Saleel, C. A.
66. Nonlinear convective nanofluid flow in an annular region of two concentric cylinders with generalized Fourier law - An application of Hamilton-Crosser nanofluid model law, **Numerical**

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**\*Ramzan, M.,** Shaheen, N., Ghazwani, H. A. S., & Kadry, S.

67. Role of surface catalyzed reaction in the flow of temperature-dependent viscosity fluid over a rotating disk, **Numerical Heat Transfer, Part A: Applications, (2023),** (Impact factor 2.982)  
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68. Influence of variable thermal conductivity and diffusion coefficients in the flow of Jeffrey fluid past a lubricated surface with homogeneous-heterogeneous reactions: A finite-difference approximation, **Numerical Heat Transfer, Part A: Applications, (2023),** (Impact factor 2.982)  
**\*Ramzan, M.,** Gul, H., Ghazwani, H. A. S., Nisar, K. S., Abbas, M., Saleel, C. V. A., & Kadry, S.
69. A numerical study of the nanofluid flow over an exponentially stretching surface with Navier slip condition following Corcione model, **International Journal of Modern Physics B, (2023),** (Impact factor 1.404)  
**\*Ramzan, M.,** Shahmir, N., Ghazwani, H. A. S., Elmasry, Y., Bilal, M., & Kadry, S.
70. Irreversibility analysis of a convective nanofluid flow over a rotating cone in a permeable media with Cattaneo-Christov heat flux and surface catalyzed reaction  
**International Journal of Modern Physics B, (2023),** (Impact factor 1.404)  
Gul, H., **\*Ramzan, M.,** Ghazwani, H. A. S., Nisar, K. S., Abbas, M., Saleel, C. A., & Kadry, S
71. A finite thin film flow of pseudo-plastic MHD hybrid nanofluid with heat generation and variable thermal conductivity, **Waves in Random and Complex Media, (2023)** (Impact factor 4.051)  
M Bilal, **\*M Ramzan,** R Zafar, I Siddique
72. Thermal efficiency appraisal of hybrid nanocomposite flow over an inclined rotating disk exposed to solar radiation with Arrhenius activation energy, **Alexandria Engineering Journal, (2023)** (Impact factor 6.626)  
Islam, N., Riasat, S., **\*Ramzan, M.,** Ghazwani, H. A. S., Pasha, A. A., Kadry, S., & Eldin, S. M.

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73. Anisotropic slip impact on nanofluid flow over a biaxial exponentially stretching sheet with Hall current: Corcione's correlation, **Waves in Random and Complex Media, (2022)** (Impact factor 4.853)  
**\*Ramzan, M.,** Shahmir, N., Ghazwani, H. A. S.
74. Magneto-micropolar nanofluid flow through the convective permeable channel using Koo-Kleinstreuer-Li model, **Journal of Magnetism and Magnetic Material, (2022),** (Impact factor 2.993)  
M Bilal, **M Ramzan,** I Siddique, A Sajjad
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\*Ramzan, M., Shaheen, N., Ghazwani, H. A. S., Elmasry, Y., Kadry, S.
77. A numerical study of nanofluid flow over a curved surface with Cattaneo–Christov heat flux influenced by induced magnetic field, **Numerical Heat Transfer, Part A**, (2022) (Impact factor 2.982)  
\*Ramzan, M., Shahmir, N., Ghazwani, H. A. S., Elmasry, Y., Kadry, S.
78. Irreversibility analysis of Reiner-Rivlin nanofluid squeezing flow amidst two rotating disks with heterogeneous catalysis, **Waves in Random and Complex Media**, (2022) (Impact factor 4.853)  
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79. Numerical study of nanofluid flow over an exponentially stretching sheet with Hall current considering PEST and PEHF temperatures, **Waves in Random and Complex Media**, (2022) (Impact factor 4.853)  
\*Ramzan, M., Shahmir, N., Saleh F. A., Ghazwani, H. A. S.
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81. Performance appraisal of Hamilton-Crosser and Yamada-Ota hybrid nanofluid flow models over a stretching cylinder with Hall current and particle shape effectiveness  
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\*Ramzan, J., Ali, J., Shahmir, N., Ghazwani, H. A. S., Nisar, K. S., Saleel, C.
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