

Zahid Nisar

Assistant Professor

NUST Balochistan Campus

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Contact:



About

Dr. Zahid Nisar is working as Assistant Professor in the NUST Balochistan Campus. Dr. Zahid Nisar has a PhD in Mathematics. Dr. Zahid Nisar has published 23 research articles & conference papers having a citation count of 291, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics	2018 - 2022
Quaid-i-Azam University , Pakistan	
MPhil in Mathematics	2011 - 2013
Quaid-i-Azam University , Pakistan	
MSc in Mathematics	2009 - 2011
Quaid-i-Azam University , Pakistan	
Post Grad Diploma in Mathematics	2006 - 2008
University of the Punjab , Pakistan	

Experience

Assistant Professor	2022- Present
NUST Balochistan Campus	
Visiting Lecturer	2022 - 2022
Fatima Jinnah Women University , Fatima Jinnah Women University, Rawalpindi	
Visiting Lecturer	2021 - 2022
Foundation University , Foundation University, Rawalpindi	
Visiting Lecturer	2021 - 2022
PMAS-Arid Agriculture University , PMAS-Arid Agriculture University	
Visiting Lecturer	2020 - 2021
PMAS-Arid Agriculture University , PMAS-Arid Agriculture University	
Visiting Lecturer	2020 - 2021
Fatima Jinnah Women University , Fatima Jinnah Women University, Rawalpindi	
Visiting Lecturer	2014 - 2017
PMAS-Arid Agriculture University, RAWALPINDI , PMAS-Arid Agriculture University, RAWALPIND	
Visiting Lecturer	2013 - 2019
Mohi-Ud-din Islamic University , Union council road, Ghakar road, Naval Anchorage, Sihala, Islamabad, Islamabad	

Research Articles

Mathematical analysis for bioconvection peristaltic transport of Sutterby nanofluid with chemical reaction	2025
Zahid Nisar Humaira Yasmin	
AIMS Mathematics , Volume:10, Issue:7, Pages 15955-15974	
Impact Factor: 1.800 Quartile: 1	
DOI: 10.3934/math.2025715	
Endoscopic analysis of peristaltic propulsion of radiative hydromagnetic nanofluid with lubrication approach and slip constraints	2025
Bilal Ahmed Dong Liu Zahid Nisar	
Physics of Fluids , Volume 37, Issue 2, Article Number 021917	

Impact Factor: 4.100 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1063/5.0254879	
Peristaltic flow of MHD Casson nanofluid with heat source/sink and thermal radiation <i>Zahid Nisar Khursheed Muhammad F. M. Aldosari Ibrahim E. Elseesy</i> <i>ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik</i> , Volume: 105, Issue:1, Article Number: e202300964, Pages:16 Impact Factor: 2.3 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1002/zamm.202300964	2025
Peristalsis of hybrid nanomaterial in convectively heated asymmetric configuration <i>T. Hayat S. Amjad Zahid Nisar A. Alsaedi</i> <i>Journal of Thermal Analysis and Calorimetry</i> , Pages: 11 Impact Factor: 3.000 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1007/s10973-024-13790-5	2024
Thermal performance of radiative hydromagnetic peristaltic pumping of hybrid nanofluid through curved duct with industrial applications <i>Bilal Ahmed Dong Liu Tasawar Hayat Zahid Nisar Mostafa A.H. Abdelmohimen</i> <i>Case Studies in Thermal Engineering</i> , Volume 64, Article Number 105498 Impact Factor: 6.400 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.csite.2024.105498	2024
Entropy generation outcomes in peristalsis of Carreau–Yasuda nanofluid flow with activation energy <i>Hina Zahir Khursheed Muhammad Zahid Nisar Mrim M. Alnfai Ibrahim E. Elseesy</i> <i>ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik</i> , Pages: 16, Article Number: e202300983 Impact Factor: 2.3 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1002/zamm.202300983	2024
Mathematical modeling and analysis for radiative MHD peristaltic flow of Bingham nanofluid <i>Zahid Nisar Bilal Ahmed Arsalan Aziz Khursheed Muhammad Hamiden Abd El-Wahed Khalifa Irshad Ahmad</i> <i>ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik</i> , Pages 1-15, Article Number e202300840 Impact Factor: 2.300 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1002/zamm.202300840	2024
Analysis for peristaltic transport of MHD hybrid nanofluid with Darcy–Forchheimer porous medium <i>Tasawar Hayat Sufia Amjad Zahid Nisar Ahmed Alsaedi</i> <i>Modern Physics Letters B</i> , Pages 1-20 Impact Factor: 1.800 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1142/S0217984925500162	2024
Thermal performance of mixed convective radiative peristaltic flow of Bingham nanofluid <i>Zahid Nisar Bilal Ahmed Mohamed E. Ghoneim Mohamed Abdelghany Elkotb</i> <i>Sensors and Actuators A: Physical</i> , Volume 373, Article Number 115399 Impact Factor: 4.600 Quartile: 1 Citations: 13 DOI: https://doi.org/10.1016/j.sna.2024.115399	2024
Statistical and numerical analysis of electrically conducting hybrid nanomaterial near the stagnation region <i>Khursheed Muhammad Zahid Nisar Abdullah M. S. Alhuthali Mohamed Hussien</i> <i>Journal of Thermal Analysis and Calorimetry</i> , Pages 1-10 Impact Factor: 3 Quartile: 2 Citations: 16 DOI: 10.1007/s10973-024-13095-7	2024
Activation energy in entropy generated peristalsis of hyperbolic tangent nanomaterials <i>Zahid Nisar Tasawar Hayat Ahmed Alsaedi</i> <i>Journal of Thermal Analysis and Calarometry</i> , Pages 1-12 Impact Factor: 4.400 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1007/s10973-024-13215-3	2024
Nonlinear thermal radiation analysis for bioconvection peristaltic transport of fourth-grade nanofluid <i>Zahid Nisar Bilal Ahmed Abdullah M. S. Alhuthali Mohamed Hussien</i> <i>Numerical Heat Transfer, Part A: Applications</i> , Pages 1-18 Impact Factor: 2.8 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1080/10407782.2024.2345873	2024
Peristaltic transport of nanofluid with temperature dependent thermal conductivity: A numerical study	2024

Faisal Shah Desheng Zhang Bilal Ahmed Zahid Nisar
Numerical Heat Transfer; Part A: Applications, Pages:15

Impact Factor: 2 | **Quartile:** 3 | **Citations:** 14
DOI: 10.1080/10407782.2024.2316845

Thermal conductivity analysis for peristalsis of hybrid nanofluid with Darcy–Forchheimer law

2024

Tasawar Hayat Sufia Amjad Zahid Nisar Ahmed Alsaedi
European Physical Journal Plus, Volume 139, Article Number 140, Pages: 13

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 9
DOI: 10.1140/epjp/s13360-024-04938-1

Numerical study for bioconvection peristaltic flow of Sisko nanofluid with Joule heating and thermal radiation

2023

Zahid Nisar Bilal Ahmed Hassan Ali Ghazwani Khursheed Muhammad Mohamed Hussien Arsalan Aziz
Heliyon, Volume 9, Issue 12, Article Number e22505

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 13
DOI: <https://doi.org/10.1016/j.heliyon.2023.e22505>

Numerical study for MHD peristaltic flow of nanofluid with variable viscosity in the porous channel

2023

Bilal Ahmed Zahid Nisar Ahmed M. El-Sherbeeney
ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Article Number e202300694

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 13
DOI: <https://doi.org/10.1002/zamm.202300694>

Significance of Joule heating for radiative peristaltic flow of couple stress magnetic nanofluid

2023

Zahid Nisar Tasawar Hayat Khursheed Muhammad Bilal Ahmed Arsalan Aziz
Journal of Magnetism and Magnetic Materials, Volume 581, Article Number 170951

Impact Factor: 2.7 | **Quartile:** 3 | **Citations:** 42
DOI: <https://doi.org/10.1016/j.jmmm.2023.170951>

Impacts of entropy generation for nonlinear radiative peristaltic transport of Powell-Eyring nanofluid: A numerical study

2023

Zahid Nisar Bilal Ahmed Arsalan Aziz Khursheed Muhammad Ibrahim E. Elseesy
Numerical Heat Transfer; Part A: Applications, Pages 1-19

Impact Factor: 2.0 | **Quartile:** 3 | **Citations:** 8
DOI: <https://doi.org/10.1080/10407782.2023.2251673>

Mathematical modelling for peristaltic flow of fourth-grade nanoliquid with entropy generation

2023

Zahid Nisar Tasawar Hayat Ahmed Alsaedi Shaher Momani
ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik, Article Number e202300034

Impact Factor: 2.3 | **Quartile:** 1 | **Citations:** 21
DOI: <https://doi.org/10.1002/zamm.202300034>

Mathematical Analysis of Mixed Convective Peristaltic Flow for Chemically Reactive Casson Nanofluid

2023

Humaira Yasmin Zahid Nisar
Mathematics, Volume 11(12), Article Number 2673

Impact Factor: 2.4 | **Quartile:** 1 | **Citations:** 26
DOI: <https://doi.org/10.3390/math11122673>

Analysis of nonlinear radiative peristaltic transport of hyperbolic tangent nanomaterial with chemical reaction

2023

Zahid Nisar Tasawar Hayat Bilal Ahmed Ahmed Alsaedi
International Journal of Modern Physics B, Pages 1-21

Impact Factor: 1.7 | **Quartile:** 2 | **Citations:** 12
DOI: <https://doi.org/10.1142/S0217979224502151>

Peristaltic pumping of hybrid nanofluids through an inclined asymmetric channel: A biomedical application

2023

Metib Alghamdi Bushra Fatima Zakir Hussain Zahid Nisar Huda Ahmed Alghamdi
Materials Today Communications, Volume 35, Article Number 105684

Impact Factor: 3.662 | **Quartile:** 3 | **Citations:** 24
DOI: <https://doi.org/10.1016/j.mtcomm.2023.105684>

Analysis of Motile Gyrotactic Micro-Organisms for the Bioconvection Peristaltic Flow of Carreau–Yasuda Bionanomaterials

2023

Editorial Activities

Heat Transfer	2025
Reviewed Papers for Journals	
Impact Factor: 2.8	
Results in Engineering	2025
Reviewed Papers for Journals	
Impact Factor: 6.0	
Case Studies in Thermal Engineering	2025
Reviewed Papers for Journals	
Impact Factor: 6.4	
Nanotechnology Reviews	2025
Reviewed Papers for Journals	
Impact Factor: 6.1	
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Reviewed Papers for Journals	
Impact Factor: 6	
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Impact Factor: 6.4	
	2024
Reviewed Papers for Journals	
Impact Factor: 6.4	
Scientific Reports	2024
Reviewed Papers for Journals	
Impact Factor: 4.6	
NUMERICAL HEAT TRANSFER PART A-APPLICATIONS	2024
Reviewed Papers for Journals	
Impact Factor: 2.8	
Modern Physics Letters B	2024
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Heliyon	2024
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Impact Factor: 4.0	
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Impact Factor: 4.0	
Physics of Fluids	2024
Reviewed Papers for Journals	

Impact Factor: 4.6	
Propulsion and Power Research	2024
Reviewed Papers for Journals	
Impact Factor: 5.3	
International Communications in Heat and Mass Transfer	2024
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Impact Factor: 7	
Nanotechnology Reviews	2024
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Physics of Fluids	2024
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Numerical heat transfer. Applications	2023
Reviewed Papers for Journals	
Impact Factor: 2	
Nonlinear Dynamics	2023
Reviewed Papers for Journals	
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Case Studies in Thermal Engineering	2023
Reviewed Papers for Journals	
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Physics of Fluids	2023
Reviewed Papers for Journals	
Impact Factor: 4.6	
Numerical Heat Transfer, Part A: Applications	2023
Reviewed Papers for Journals	
Impact Factor: 2.0	
Advances in Mechanical Engineering	2023
Reviewed Papers for Journals	
Impact Factor: 2.1	
Numerical Heat Transfer, Part A: Applications	2023
Reviewed Papers for Journals	
Impact Factor: 2.569	
Nonlinear Dynamics	2023
Reviewed Papers for Journals	
Impact Factor: 5.741	
Heliyon	2023
Reviewed Papers for Journals	
Impact Factor: 3.776	
Scientific Reports	2023
Reviewed Papers for Journals	
Impact Factor: 4.996	
Heliyon	2023
Reviewed Papers for Journals	
Impact Factor: 3.776	
Physics of Fluids	2023
Reviewed Papers for Journals	
Impact Factor: 4.980	