

Noreen Sher Akbar

Professor

College of Electrical & Mechanical Engineering

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About

Dr. Noreen Sher Akbar is working as Professor in the College of Electrical & Mechanical Engineering. Dr. Noreen Sher Akbar has a PhD in Mathematics. Dr. Noreen Sher Akbar has published 351 research articles & conference papers having a citation count of 13247, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Quaid-i-Azam University , Pakistan	2008 - 2012
MPhil in Applied Mathematics Quaid-i-Azam University , Pakistan	2006 - 2008
MSc in Applied Mathematics Quaid-i-Azam University , Pakistan	2004 - 2006
BSc in Mathematics A, Mathematics B, Statistics University of the Punjab , Pakistan	2002 - 2004

Experience

Professor College of Electrical & Mechanical Engineering	2024- Present
Professor College of Electrical & Mechanical Engineering	2022 - 2012
Associate Professor College of Electrical & Mechanical Engineering	2018 - 2025
Assistant Professor College of Electrical & Mechanical Engineering	2012 - 2018
Assistant Professor College of Electrical & Mechanical Engineering	2012 - 2022

Awards

Selectd for women leadership in higher study tour Chort II Leadership in higher education	2023
High Achiever NUST High Performance Faculty	2022
Top 2% Scientist of the world Top performing Scientist	2022
Top 2% Scientist of the world Top performing Scientist	2021
Best researche CEME Best researcher	2021
Top 2% Scientist of the world Top performing Scientist	2020
Top 2% Scientist of the world Top performing Scientist	2019
I.O.S.R.D Top Scientific Research	2018
Raziuddin Gold Medal of Mathematics Top performing Mathematician	2017
Top cited article Best article performance	2016
Top Nano Scientist Top performing Scientist	2016
Top cited article Best article performance	2015
Best Researcher Best researcher	2014
Best researche CEME Best researcher	2014
Research Productivity award Best productive scientists	2014
Best researcher Best researcher	2014
Research Productivity award Best productive scientists	2013
Best Researcher Best researcher	2013
Best Youngest Scientist Best young researcher	2012

Research Projects

National Projects

Energy Conservation and Entropy Generation Rate for Peristaltic Flow With the Interaction of Nanoparticles	2017
Funding Agency: HEC	
Amount: PKR 2,300,000.00	
Status: Completed	
Peristaltic flows of nano fluids with different flow geometries	2014
Funding Agency: HEC	
Amount: PKR 1,432,000.00	
Status: Completed	
Energy Conservation and Entropy Generation Rate for Peristaltic Flow With the Interaction of Nanoparticles	2017
Funding Agency: HEC	
Amount: PKR 1,560,000.00	
Status: Completed	
Fluid flow analysis with addition of nanoparticles by means of contraction and expansion	2017
Funding Agency: HEC	
Amount: PKR 346,000.00	
Status: Completed	
Analyzing the effects of Nanoparticles Thermal Conductivity on the flow and heat transfer characteristics of fluid	2017
Funding Agency: HEC	
Amount: PKR 506,000.00	
Status: Completed	

International Projects

Research Articles

Nano particle distribution in blood via electroosmotic peristaltic flow in a non-uniform wavy membrane base capillaries	2024
Noreen Sher Akbar E.N.Maraj Syed Irfan Shah Taseer Muhammad	
Sensors and Actuators A: Physical, Volume:376, Article Number:115626	
Impact Factor: 4.1 Quartile: 1 Citations: 24	
DOI: 10.1016/j.sna.2024.115626	
Computational study on cilia transport of Prandtl nanofluid (blood-Fe3O4) enhancing convective heat transfer along microorganisms under electroosmotic effects in wavy capillaries	2024
Madiha Ajmal Rashid Mehmood Noreen Sher Akbar Taseer Muhammad	
International Journal of Numerical Methods for Heat & Fluid Flow, Pages 1-25	
Impact Factor: 4.000 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.1108/HFF-07-2024-0503	
Simulation of hybrid boiling nano fluid flow with convective boundary conditions through a porous stretching sheet through Levenberg Marquardt artificial neural networks approach	2024
Noreen Sher Akbar Tayyab Zamir Javaria Akram Tayyaba Noor Taseer Muhammad	
International Journal of Heat and Mass Transfer, Volume 228, Article Number 125615	
Impact Factor: 5.200 Quartile: 1 Citations: 78	
DOI: 10.1016/j.ijheatmasstransfer.2024.125615	
Numerical exploration of electroosmotically regulated squeezing rotating flow of TiO2/water nanofluid in a parallel plate channel under triple diffusion convection	2024
Javaria Akram Noreen Sher Akbar Hina Pervaiz Rashid Mehmood	
Physica Scripta, Volume 99, Issue 7, Article Number 075249	
Impact Factor: 2.600 Quartile: 2 Citations: 1	
DOI: https://doi.org/10.1088/1402-4896/ad56d7	
Biological structural study for the blood casson fluid flow in catheterized diverging tapered stenosed arteries with emerging shaped nanoparticles: application in drug delivery	2024
Noreen Sher Akbar Maimona Rafiq Taseer Muhammad Metib Alghamdi	

Propulsive study of blood flow with heat transfer enhancement connection to ferro copper magnetized nanoparticles in converging tapered stenosed arterial surface

2024

Noreen Sher Akbar Maimona Rafiq Taseer Muhammad Metib Alghamdi

International Journal of Modern Physics B, Article Number 2550055

Impact Factor: 1.700 | Quartile: 2

DOI: 10.1142/S0217979225500559

Levenberg-Marquardt technique analysis of thermal and concentration storage in cone-disk apparatus with neural network-enhancement

2024

Noreen Sher Akbar Tayyab Zamir Taseer Muhammad

Thermal Science and Engineering Progress , Volume 50, Article Number: 102529

Impact Factor: 4.8 | Quartile: 1 | Citations: 30

DOI: 10.1016/j.tsep.2024.102529

Hybrid nanofluid flow and heat transfer in symmetric porous ducts with CuO nanoparticles and multi-walled carbon nanotubes under peristaltic motion

2024

Noreen Sher Akbar Javaria Akram M. Fiaz Hussain E.N.Maraj Taseer Muhammad

Modern Physics Letters B , Volume 2024, Article Number 2450333

Impact Factor: 1.900 | Quartile: 2 | Citations: 22

DOI: DOI: 10.1142/S0217984924503330

Thermal storage study and enhancement of heat transfer through hybrid Jeffrey nanofluid flow in ducts under peristaltic motion with entropy generation

2024

Noreen Sher Akbar Javaria Akram M. Fiaz Hussain E.N.Maraj Taseer Muhammad

Thermal Science and Engineering Progress , Volume:49, Article Numebr: 102463

Impact Factor: 4.8 | Quartile: 1 | Citations: 50

DOI: 10.1016/j.tsep.2024.102463

Double layered combined convective heated flow of Eyring-Powell fluid across an elevated stretched cylinder using intelligent computing approach

2024

Metib Aghamdi Noreen Sher Akbar Tayyab Zamir Taseer Muhammad

Case Studies in Thermal Engineering , Volume 54, Article Number: 104009

Impact Factor: 6.8 | Quartile: 1 | Citations: 76

DOI: 10.1016/j.csite.2024.104009

Biological structural study of emerging shaped nanoparticles for the blood flow in diverging tapered stenosed arteries to see their application in drug delivery

2024

Noreen Sher Akbar M. Bilal Habib Maimona Rafiq Taseer Muhammad Metib Aghamdi

Scientific Report , Volume 142, Article Number: 1475

Impact Factor: 4.6 | Quartile: 2 | Citations: 19

DOI: 10.1038/s41598-024-51848-4

Microbic flow analysis of nano fluid with chemical reaction in microchannel with flexural walls under the effects of thermophoretic diffusion

2024

Noreen Sher Akbar Maimona Rafiq Taseer Muhammad Metib Alghamdi

Scientific Report , Volume 142, Article Number: 1474

Impact Factor: 4.6 | Quartile: 2 | Citations: 18

DOI: 10.1038/s41598-023-50915-6

Electro osmotically interactive biological study of thermally stratified micropolar nanofluid flow for Copper and Silver nanoparticles in a microchannel

2024

Noreen Sher Akbar Maimona Rafiq Taseer Muhammad Metib Alghamdi

Scientific Reports , Volume: 14, Article number: 518

Impact Factor: 4.6 | Quartile: 2 | Citations: 60

DOI: doi.org/10.1038/s41598-023-51017-z

Thermal synthesize of shear thinning nanofluid in small flexible vessel type channel with low seepage Reynold number and Au nanoparticles

2024

Noreen Sher Akbar M. Fiaz Hussain Taseer Muhammad Metib Alghamdi

Case Studies in Thermal Engineering , Volume 53, Article Number 103932

Impact Factor: 6.8 | Quartile: 1 | Citations: 14

DOI: <https://doi.org/10.1016/j.csite.2023.103932>

Thermal characteristics of magnetized hybrid Casson nanofluid flow in a converging–diverging channel with radiative heat transfer: a computational analysis

2023

Noreen Sher Akbar M. Fiaz Hussain Taseer Muhammad Metib Alghamdi
Scientific Reports , Volume 13, Issue 1, Article Number 21891

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 9

DOI: <https://doi.org/10.1038/s41598-023-49397-3>

Physical aspects of electro osmotically interactive Cilia propulsion on symmetric plus asymmetric conduit flow of couple stress fluid with thermal radiation and heat transfer

2023

Noreen Sher Akbar Taseer Muhammad
Scientific Reports , Volume 13, Article Number 18491

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 35

DOI: <https://doi.org/10.1038/s41598-023-45595-1>

Peristaltic flow analysis of thermal engineering nano model with effective thermal conductivity of different shape nanomaterials assessing variable fluid properties

2023

Noreen Sher Akbar Abbasali Abouei Mehrizi Maimona Rafiq M. Bilal Habib Taseer Muhammad
Alexandria Engineering Journal , Volume 81, Pages 395-404

Impact Factor: 6.8 | **Quartile:** 1 | **Citations:** 29

DOI: <https://doi.org/10.1016/j.aej.2023.09.027>

Numerically hydrothermal fully developed forced convective hybrid nanofluid flow through annular sector duct

2023

Farhan Ahmed Noreen Sher Akbar Dharmendra Tripathi
Modern Physics Letters B , Article Number 2450029 (23 pages)

Impact Factor: 1.9 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1142/S0217984924500295

Thermodynamic study of hybrid nanofluid to explore synergistic effects of multiple ferromagnetic nanoparticles in co-axial disks for magnetized fluid

2023

Metib Alghamdi Noreen Sher Akbar M. Fiaz Hussain Salman Akhtar Taseer Muhammad
Tribology International , Volume 188, Article Number 108867

Impact Factor: 6.2 | **Quartile:** 1 | **Citations:** 12

DOI: <https://doi.org/10.1016/j.triboint.2023.108867>

Biological analysis of emerging nanoparticles with blood through propagating flow along a plumb porous canal in the occurrence of energy and heat transfer

2023

Noreen Sher Akbar Khalid Y. Ghailan Ashwag Albakri Mohammed M. Alshehri
Surfaces and Interfaces , Volume 40, Article Number: 103013

Impact Factor: 6.2 | **Quartile:** 1 | **Citations:** 61

DOI: 10.1016/j.surfin.2023.103013

Thermal enhancement of nano-fluidic transport confined between disk and cone both rotating with distinct angular velocities and heat transfer

2023

E.N. Maraj Noreen Sher Akbar Nabeela Kousar Iffat Zahra Taseer Muhammad
International Journal of Numerical Methods for Heat & Fluid Flow, Pages 1-21

Impact Factor: 4.2 | **Quartile:** 1 | **Citations:** 11

DOI: DOI 10.1108/HFF-04-2023-0182

Electroosmotically actuated peristaltic-ciliary flow of propylene glycol + water conveying titania nanoparticles

2023

Javaria Akram Noreen Sher Akbar
Scientific Reports , Volume 13, Issue 1, Article Number 11801

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 54

DOI: 10.1038/s41598-023-38820-4

Thermally progressive Particle-Cu/Blood peristaltic transport with mass transfer in a Non-Uniform Wavy Channel: Closed-form exact solutions

2023

Noreen Sher Akbar E.N. Maraj Syed Irfan Shah Taseer Muhammad
Alexandria Engineering Journal , Volume 74, Pages 453-466

Impact Factor: 6.262 | **Quartile:** 1 | **Citations:** 62

DOI: 10.1016/j.aej.2023.05.056

Electro-osmotically modulated magneto hydrodynamic peristaltic flow of menthol based nanofluid in a uniform channel with shape factor <i>Noreen Sher Akbar E.N. Maraj Iffat Zahra A.W. Butt Huda Ahmed Alghamdi</i> <i>Journal of Magnetism and Magnetic Materials</i>, Volume:576, Article Number:170774 Impact Factor: 3.097 Quartile: 3 Citations: 32 DOI: 10.1016/j.jmmm.2023.170774	2023
Dynamics of Soret-Dufour effects and thermal aspects of Joule heating in multiple slips Casson-Williamson nanofluid <i>Usman Ali Muhammad Irfan Noreen Sher Akbar Khalil Ur Rehman Wasfi Shatanawi</i> <i>International Journal of Modern Physics B</i>, Pages 1-21 Impact Factor: 1.7 Quartile: 2 Citations: 13 DOI: DOI: 10.1142/S0217979224502060	2023
Analytical Investigation of Electroosmotically Regulated Peristaltic Propulsion of Cu-water Nanofluid Through a Microtube <i>Adil Wahid Butt Noreen Sher Akbar Dharmendra Tripathi Javaria Akram</i> <i>Iraqi Journal of Science</i>, Vol. 64, No. 5, pp: 2354-2367 Impact Factor: 0 Citations: 11 DOI: 10.24996/ij.s.2023.64.5.21	2023
Thermal stratification effect on gravity driven transport of hybrid CNTs down a stretched surface through porous medium <i>Noreen Sher Akbar Faisal Z. Duraihem E.N. Maraj Rashid Mehmood</i> <i>Heliyon</i>, Volume: 9, Issue: 5, Article Number: e15699 Impact Factor: 3.776 Quartile: 2 Citations: 17 DOI: 10.1016/j.heliyon.2023.e15699	2023
Hydro-dynamically and thermally fully developed flow analysis of magneto-hydrodynamic fluid through annular duct <i>Farhan Ahmed Noreen Sher Akbar Dharmendra Tripathi</i> <i>International Journal of Modern Physics B</i>, Pages 1-20 Impact Factor: 1.7 Quartile: 2 Citations: 3 DOI: DOI: 10.1142/S021797922450098X	2023
Electroosmotically augmented peristaltic flow of carbon nanotubes based nanofluid through asymmetrical channel <i>Noreen Sher Akbar Zafar Hayat Khan Javaria Akram Muhammad Hamid Yangjiang Wei</i> <i>ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik</i>, Journal Impact Factor: 1.759 Quartile: 2 Citations: 25 DOI: 10.1002/zamm.202100354	2023
Variable fluid properties analysis for thermally laminated 3-dimensional magnetohydrodynamic non-Newtonian nanofluid over a stretching sheet <i>Noreen Sher Akbar A. Al-Zubaidi S. Saleem Shami A. M. Alsallami</i> <i>Scientific Reports</i>, Volume:13, Issue:1, Article number: 3231 Impact Factor: 4.997 Quartile: 2 Citations: 23 DOI: 10.1038/s41598-023-30233-7	2023
Mixed convective eyring-powell ferro magnetic nanofluid flow suspension towards a stretching surface with buoyancy effects through numerical analysis <i>Faisal Z. Duraihem Noreen Sher Akbar Salman Saleem</i> <i>Frontiers in Materials</i>, Volume 10, Article Number 1109755 Impact Factor: 3.985 Quartile: 2 Citations: 3 DOI: 10.3389/fmats.2023.1109755	2023
Numerical analysis of non-Newtonian nanofluids under double-diffusive regimes <i>Noreen Sher Akbar Fouad Othman Mallawi</i> <i>Frontiers in Materials</i>, Volume 9, Article Number 1078467 Impact Factor: 3.985 Quartile: 2 Citations: 6 DOI: DOI 10.3389/fmats.2022.1078467	2023
Metachronal wave form analysis on cilia-driven flow of non-Newtonian Phan–Thien–Tanner fluid model: A physiological mathematical model <i>Noreen Sher Akbar Salman Akhtar</i>	2022

Impact Factor: 1.822 | **Quartile:** 3 | **Citations:** 22

DOI: DOI: 10.1177/09544089221140703

Thermally conductive electro-osmotic propulsive pressure-driven peristaltic streaming flow study with a suspended nanomaterial in a micro-ciliated tube

2022

Adil Wahid Butt Noreen Sher Akbar Rashid Mehmood Shahid Farooq

Frontiers in Materials, Volume 9, Article Number 1059816

Impact Factor: 3.985 | **Quartile:** 2 | **Citations:** 16

DOI: 10.3389/fmats.2022.1059816

Numerical study of the thermally stratified hemodynamic nanofluid flow with variable viscosity over a heated wedge

2022

Noreen Sher Akbar

Frontiers in Chemistry, Volume 10, Article Number 1021303

Impact Factor: 5.545 | **Quartile:** 2 | **Citations:** 3

DOI: 10.3389/fchem.2022.1021303

Mathematical Modeling of Aphron Drilling nanofluid Driven by Electroosmotically Modulated Peristalsis Through a Pipe

2022

Javaria Akram Noreen Sher Akbar

Mathematical Modelling Natural Phenomena, Volume 17, Article Number 19

Impact Factor: 3.117 | **Quartile:** 1 | **Citations:** 12

DOI: <https://doi.org/10.1051/mmnp/2022012>

Electroosmotically modulated peristaltic propulsion of TiO₂/10W40 nanofluid in curved microchannel

2022

Noreen Sher Akbar Javaria Akram Monairah Alansari Dharmendra Tripathi

International Communications in Heat and Mass Transfer, Volume 136, Article Number 106208

Impact Factor: 6.782 | **Quartile:** 1 | **Citations:** 61

DOI: <https://doi.org/10.1016/j.icheatmasstransfer.2022.106208>

Analysis of electroosmotic flow of silver-water nanofluid regulated by peristalsis using two different approaches for nanofluid

2022

Noreen Sher Akbar Javaria Akram Dharmendra Tripathi

Journal of Computational Science, Volume 62, Article Number 101696

Impact Factor: 3.976 | **Quartile:** 1 | **Citations:** 66

DOI: <https://doi.org/10.1016/j.jocs.2022.101696>

Exact solutions of an unsteady thermal conductive pressure driven peristaltic transport with temperature-dependent nanofluid viscosity

2022

Noreen Sher Akbar E. N. Maraj N. F. M. Noor M Bilal Habib

Case Studies in Thermal Engineering, Volume 35, Article Number 102124

Impact Factor: 4.724 | **Quartile:** 1 | **Citations:** 49

DOI: 10.1016/j.csite.2022.102124

Rotatory flow of MHD (MoS₂-SiO₂)/H₂O hybrid nanofluid in a vertical channel owing to velocity slip and thermal periodic conditions

2022

Noreen Sher Akbar E. N. Maraj Iffat Zehra

Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 639, Article Number 128383

Impact Factor: 4.539 | **Quartile:** 2 | **Citations:** 36

DOI: 10.1016/j.colsurfa.2022.128383

Entropy generation in electroosmotically aided peristaltic pumping of MoS₂ Rabinowitsch nanofluid

2022

Noreen Sher Akbar Javaria Akram Dharmendra Tripathi

Fluid Dynamics Research, Volume 54, Number 1, Article Number 015507

Impact Factor: 1.067 | **Quartile:** 4 | **Citations:** 26

DOI: <https://doi.org/10.1088/1873-7005/ac4e7b>

Heat Transfer Analysis of MHD Viscous Fluid in A Ciliated Tube with Entropy Generation

2021

Noreen Sher Akbar Salman Akhtar E.N. Maraj Ali E. Anqi

Mathematical Methods in the Applied Sciences, Pages 1-14

Impact Factor: 2.321 | **Quartile:** 1

DOI: 10.22541/au.162236460.08205709/v1

A comparative study of serological diagnosis of Dengue outbreak 2019

2021

Muhammad Bilal Habib Noreen Sher Akbar Anber Saleem
African Health Sciences, Volume 21, No. 3, Pages 1117-1123

Impact Factor: 0.927 | **Quartile:** 4 | **Citations:** 2

DOI: 10.4314/ahs.v21i3.20

Thermal Analysis on MHD Flow of Ethylene Glycol-based BNNTs Nanofluids via Peristaltically Induced Electroosmotic Pumping in a Curved Microchannel

2021

Noreen Javaria Akram Dharmendra Tripathi

Arabian Journal for Science and Engineering, Pages 1-17

Impact Factor: 2.334 | **Quartile:** 3 | **Citations:** 49

DOI: <https://doi.org/10.1007/s13369-021-06173-7>

Electroosmosis augmented MHD peristaltic transport of SWCNTs suspension in aqueous media

2021

Javaria Akram Noreen Sher Akbar Dharmendra Tripathi

Journal of Thermal Analysis and Calorimetry, Pages 1-18

Impact Factor: 4.755 | **Quartile:** 1 | **Citations:** 50

DOI: <https://doi.org/10.1007/s10973-021-10562-3>

A Theoretical Investigation on the Heat Transfer Ability of Water-Based Hybrid (Ag–Au) Nanofluids and Ag Nanofluids Flow Driven by Electroosmotic Pumping Through a Microchannel

2021

Javaria Akram Noreen Sher Akbar Dharmendra Tripathi

Arabian Journal for Science and Engineering, Volume 46, Pages 2911–2927

Impact Factor: 2.807 | **Quartile:** 2 | **Citations:** 53

DOI: <https://doi.org/10.1007/s13369-020-05265-0>

Viscous dissipation and joule heating effects on forced convection power law fluid flow through annular duct

2021

Farhan Ahmed Mazhar Iqbal Noreen Sher Akbar

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Pages 1-8

Impact Factor: 1.758 | **Quartile:** 3 | **Citations:** 18

DOI: <https://doi.org/10.1177/0954406221991180>

Numerical simulation of Electrokinetically Driven Peristaltic Pumping of Silver-Water Nanofluids in an asymmetric microchannel

2020

Javaria Akram Noreen Sher Akbar Dharmendra Tripathi

Chinese Journal of Physics, Volume 68, Pages 745-763

Impact Factor: 3.237 | **Quartile:** 2 | **Citations:** 24

DOI: <https://doi.org/10.1016/j.cjph.2020.10.015>

Effect of the Hall currents and thermal radiation on the flow of a nanofluid through a vertical rotating channel

2020

Noreen Sher Akbar Mahidzal Dahari Javaria Akram M. Bilal Habib

Mathematical Methods in the Applied Sciences, Pages 1-19

Impact Factor: 2.321 | **Quartile:** 1 | **Citations:** 5

DOI: <https://doi.org/10.1002/mma.6986>

Numerical study of the electroosmotic flow of Al₂O₃– CH₃OH Sisko nanofluid through a tapered microchannel in a porous environment

2020

Javaria Akram Noreen Sher Akbar Dharmendra Tripathi

Applied Nanoscience, Volume 10, Pages 4161–4176

Impact Factor: 3.674 | **Quartile:** 3 | **Citations:** 33

DOI: <https://doi.org/10.1007/s13204-020-01521-9>

Blood-based graphene oxide nanofluid flow through capillary in the presence of electromagnetic fields: A Sutterby fluid model

2020

Javaria Akram Noreen Sher Akbar Dharmendra Tripathi

Microvascular Research, Volume 132, Article Number 104062

Impact Factor: 3.514 | **Quartile:** 2 | **Citations:** 70

DOI: <https://doi.org/10.1016/j.mvr.2020.104062>

Comparative study on ethylene glycol based Ag–Al₂O₃ and Al₂O₃ nanofluids flow driven by electroosmotic and peristaltic pumping: a nano-coolant for radiators

2020

Javaria Akram Noreen Sher Akbar Dharmendra Tripathi

Physica Scripta, Volume 95, Article Number 115208

Impact Factor: 2.487 | **Quartile:** 2 | **Citations:** 16

DOI: https://doi.org/10.1088/1402-4896/abbd6b	
Heat transfer analysis of peristaltic flow of a Phan-Thien–Tanner fluid model due to metachronal wave of cilia	2020
<i>Adil Wahid Butt Noreen Sher Akbar Nazir Ahmed Mir</i> <i>Biomechanics and Modeling in Mechanobiology</i> , Volume 19, Issue 5, Pages 1925-1933	
Impact Factor: 2.963 Quartile: 3 Citations: 39	
DOI: https://doi.org/10.1007/s10237-020-01317-4	
Chemical reaction and heat source/sink effect on magnetonano Prandtl-Eyring fluid peristaltic propulsion in an inclined symmetric channel	2020
<i>Javaria Akram Noreen Sher Akbar E. Maraj</i> <i>Chinese Journal of Physics</i> , Volume 65, Pages 300–313	
Impact Factor: 3.237 Quartile: 2 Citations: 43	
DOI: https://doi.org/10.1016/j.cjph.2020.03.004	
3D MHD cross flow over an exponential stretching porous surface	2020
<i>Manoj Kumar Nayak Vinay Shankar Pandey Dharmendra Tripathi Dr. Noreen Sher Akbar Oluwale D Makinde</i> <i>Heat Transfer-Asian Research</i> , Volume 49, Issue 3, Pages 1256-1280	
Impact Factor: - Citations: 25	
DOI: DOI: 10.1002/htj.21661	
Biological analysis of Carreau nanofluid in an endoscope with variable viscosity	2020
<i>Javaria Akram Noreen Sher Akbar</i> <i>Physica Scripta</i> , Volume 95, No. 5, Article Number 055201	
Impact Factor: 2.487 Quartile: 2 Citations: 27	
DOI: https://doi.org/10.1088/1402-4896/ab74d7	
A comparative study on the role of nanoparticle dispersion in electroosmosis regulated peristaltic flow of water	2020
<i>Javaria Akram Noreen Sher Akbar E. Maraj</i> <i>Alexandria Engineering Journal</i> , Volume 59, Issue 2, Pages 943-956	
Impact Factor: 3.732 Quartile: 1 Citations: 59	
DOI: https://doi.org/10.1016/j.aej.2020.03.017	
New trends of nanofluids to combat Staphylococcus aureus in clinical isolates	2020
<i>Muhammad Bilal Habib Noreen Sher Akbar</i> <i>Journal of Thermal Analysis and Calorimetry</i> , Volume 143, Pages 1893–1899	
Impact Factor: 4.626 Quartile: 1 Citations: 22	
DOI: https://doi.org/10.1007/s10973-020-09502-4	
Mechanistic investigation for shape factor analysis of SiO₂/MoS₂-ethylene glycol inside a vertical channel influenced by oscillatory temperature gradient	2019
<i>Noreen Sher Akbar Z. Iqbal Bilal Ahmed E. N. Maraj</i> <i>Canadian Journal of Physics</i> , Volume 97(9), Pages 950-958	
Impact Factor: 1.032 Quartile: 3	
DOI: https://doi.org/10.1139/cjp-2018-0717 .	
Heat and peristaltic propagation of water based nanoparticles with variable fluid features	2019
<i>Samreen Sherif Hina Sadaf Noreen Sher Akbar Nazir Ahmad Mir</i> <i>Physica Scripta</i> , Volume 94, Number 12	
Impact Factor: 1.985 Quartile: 2 Citations: 17	
DOI: 10.1088/1402-4896/ab3316	
Slip analysis with thermally developed peristaltic motion of nanoparticles under the influence of variable viscosity in vertical configuration	2019
<i>Samreen Sherif Dr Hina Sadaf Dr Noreen Sher Akbar Dr Nazir Ahmad Mir</i> <i>The European Physical Journal Plus</i> , Volume 134, Issue 8, Article Number 408	
Impact Factor: 3.228 Quartile: 1 Citations: 9	
DOI: 10.1140/epjp/i2019-12766-y	
Physiological fluid flow analysis by means of contraction and expansion with addition of hybrid nanoparticles	2019
<i>Hina Sadaf Naheeda iftikhar Noreen Sher Akbar</i> <i>European Physical Journal Plus</i> , Volume: 134, Issue: 5, Article Number: 232	

Impact Factor: 3.228 Quartile: 1 Citations: 17 DOI: 10.1140/epjp/i2019-12598-9	
Frequency and Susceptibility Pattern of Extended Spectrum Beta Lactamase Producing Aerobic Gram Negative Bacteria in Post-Operative Infections <i>Muhammad Bilal Habib Noreen Sher Akbar</i> <i>Nano Biomedicine and Engineering</i> , Volume 11, Issue 2, Pages 138-149 Impact Factor: N/A DOI: doi: 10.5101/nbe.v11i2.p138-149	2019
Ferromagnetic nano model study for the peristaltic flow in a plumb duct with permeable walls <i>Noreen Sher Akbar A.W. Butt</i> <i>Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems</i> , Volume: 25 Issue: 4 Pages: 1227-1234 Impact Factor: 1.737 Quartile: 3 Citations: 14 DOI: https://doi.org/10.1007/s00542-018-4045-5	2019
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European Physical Journal Plus, Volume: 129 Issue: 6 Article Number: 123

Impact Factor: 1.37 | **Quartile:** 2 | **Citations:** 20

DOI: 10.1140/epjp/i2014-14123-2

Mathematical model for the peristaltic flow of Jeffrey fluid with nanoparticles phenomenon through a rectangular duct

2014

S.Nadeem R. Ellahi Noreen Sher Akbar Arshad Riaz

Applied Nanoscience, Volume: 4 Issue: 5 Pages: 613-624

Impact Factor: 0 | **Citations:** 39

DOI: 10.1007/s13204-013-0238-5

Investigation of peristaltic flow of Williamson nanofluid in a curved channel with compliant walls

2014

S.Nadeem E. N. Maraj Noreen Sher Akbar

Applied Nanoscience, Volume: 4, Issue: 5, Pages: 511-521

Impact Factor: 0 | **Citations:** 44

DOI: 10.1007/s13204-013-0234-9

Peristaltic Flow of Cu-Water Nanofluid in a Tube

2014

Noreen Sher Akbar

Journal of Computational and Theoretical Nanoscience, Volume 11, Issue 6, Pages 1411-1416

Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 27

DOI: 10.1166/jctn.2014.3511

Exact solution of peristaltic flow of biviscosity fluid in an endoscope: A note

2014

Noreen Sher Akbar S. Nadeem

Alexandria Engineering Journal, Volume 53, Issue 2, Pages 449–454

Impact Factor: N/A | **Citations:** 34

DOI: <http://dx.doi.org/10.1016/j.aej.2014.03.002>

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Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 25

DOI: doi:10.1166/jctn.2014.3501

Unsteady oscillatory stagnation point flow of a Jeffrey fluid

2014

S.Nadeem Bushra Tahir Fotini Labropulu Noreen Sher Akbar

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Impact Factor: 0.839 | **Quartile:** 2 | **Citations:** 16

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Heat and Mass Transfer Analysis of Peristaltic Flow of Nanofluid in a Vertical Rectangular Duct by Using the Optimized Series Solution and Genetic Algorithm

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S.Nadeem R. Ellahi Noreen Sher Akbar A. Zeeshan Arshad Riaz

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Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 14

DOI: 10.1166/jctn.2014.3473

Optimized analytical solution for oblique flow of a Casson-nano fluid with convective boundary conditions

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S.Nadeem Rashid Mehmood Noreen Sher Akbar

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Impact Factor: 2.629 | **Quartile:** 1 | **Citations:** 144

DOI: 10.1016/j.ijthermalsci.2013.12.001

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S.Nadeem Arshad Riaz R. Ellahi Noreen Sher Akbar

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Impact Factor: 0 | **Citations:** 52

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2014

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Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 36

DOI: 10.1166/jctn.2014.3474

Influence of Heat and Mass Transfer on Micropolar Fluid of Blood Flow Through a Tapered Stenosed Arteries with Permeable Walls

2014

R.Ellahi S. Nadeem Noreen Sher Akbar S.U. Rahman

Journal of Computational and Theoretical Nanoscience, Volume 11, Issue 4, Pages 1156-1163

Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 41

DOI: 10.1166/jctn.2014.3475

MHD peristaltic flow with carbon nanotubes in an asymmetric channel

2014

Noreen Sher Akbar

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Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 35

DOI: 10.1166/jctn.2014.3499

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2014

Noreen Sher Akbar S. Nadeem Z.H. Khan Rizwan Ul Haq

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Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 11

DOI: 10.1166/jctn.2014.3315

Theoretical analysis for peristaltic flow of carreau nano fluid in a curved channel with compliant walls

2014

S.Nadeem Noreen Sher Akbar E. N. Maraj

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Impact Factor: 1.343 | **Quartile:** 3 | **Citations:** 18

DOI: 10.1166/jctn.2014.3516

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Impact Factor: N/A Citations: 91 DOI: https://doi.org/10.1016/j.aej.2013.10.003	
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Editorial Activities

Molecular Simulation 2024
Reviewed Papers for Journals
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journal Chemical Product and Process Modeling 2024
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International Journal of Modelling and Simulation 2024
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Reviewed Papers for Journals
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Journal of Magnetism and Magnetic Materials Reviewed Papers for Journals Impact Factor: 2.7	2023
Numerical Heat Transfer Part B-Fundamentals Reviewed Papers for Journals Impact Factor: 1.0	2023
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