

Safia Akram

Professor

Military College of Signals

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About

Dr. Safia Akram is working as Professor in the Military College of Signals. Dr. Safia Akram has a PhD in Mathematics. Dr. Safia Akram has published 101 research articles & conference papers having a citation count of 2434, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Quaid-i-Azam University , Pakistan	2008 - 2011
MSc in Mathematics Quaid-i-Azam University , Pakistan	2005 - 2007
BSc in Mathematics, Physics University of the Punjab , Pakistan	2002 - 2004

Experience

Professor Military College of Signals	2021- Present
Associate Professor Military College of Signals	2016 - 2021
Assistant Professor Military College of Signals	2011 - 2016
Regular Visiting Faculty Military College of Signals	2009 - 2011

Awards

Best presentation award Recipient of Best presentation award in 19th International Conference on Applied Mathematics and Computational Mechanics (ICAMCM) 2017.	2017
Research Productivity Awa Recipient of Research Productivity Award for the year 2015	2015
Research Productivity Awa Recipient of Research Productivity Award for the year 2012.	2012
Research Productivity Awa Recipient of Research Productivity Award for the year 2011.	2011

Research Projects

National Projects

Computational Modeling of Pulsatile Magneto-Peristaltic Flow of Nanofluids with thermal radiation and Viscosity for Biomedical Pumps and Injectors Funding Agency: Institutional Funding Program Saudi- Arabia Amount: PKR 3,780,000.00 Status: Approved_inprocess	2025
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International Projects

Research Articles

<p>Computational analysis for thermal and mass transfer in pumping flow of Ellis fluid along with solid particles: Morlet wavelet neural networks approach</p> <p><i>Muhammad Naeem Aslam Arshad Riaz Mehpara Shehzadi Safia Akram M.M. Bhatti</i> <i>Engineering Applications of Artificial Intelligence</i>, Volume 155, Article Number 111096</p> <p>Impact Factor: 7.500 Quartile: 1 DOI: https://doi.org/10.1016/j.engappai.2025.111096</p>	2025
<p>Thermally induced cilia flow of Prandtl nanofluid under the influence of electroosmotic effects with boundary slip,</p> <p><i>Sadiq M Sait Arshad Riaz Sobia Shaheen Rahamat Ellahi Safia Akram</i> <i>Journal of Taibah University for Science</i>, Volume:19, Number: 01, Article Number:2484877, Pages:16</p> <p>Impact Factor: 2.8 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1080/16583655.2025.2484877</p>	2025
<p>Peristaltic flow of electromagnetic tri-hybrid Carreau nanofluid using backpropagated Levenberg–Marquardt technique: an entropy generation analysis in blood cells</p> <p><i>Arshad Riaz Muhammad Naeem Aslam Mahreen Ali Awan Muhammad Waheed Aslam Sami Ullah Khan Safia Akram Emad E. Mahmoud</i> <i>Electromagnetic Biology and Medicine</i>, Pages 1-19</p> <p>Impact Factor: 1.600 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1080/15368378.2025.2469699</p>	2025
<p>Interaction of induced magnetic field, double diffusion convection and multiple slips for thermal radiative biological flow of six-constant Jeffreys nanofluid: Advancements in mechanics</p> <p><i>Safia Akram Khalid Saeed Maria Athar Arshad Riaz Alia Razia Malik Mushrifah A.S. Al-Malki</i> <i>Separation Science and Technology</i>, Volume 60, Issue 2, Pages 316-339</p> <p>Impact Factor: 2.400 Quartile: 3 Citations: 3 DOI: https://doi.org/10.1080/01496395.2024.2434523</p>	2025
<p>Magnetized peristaltic flow of Sisko nanofluid under thermal radiation and double-diffusive convection with viscous dissipation and slip effects in an asymmetric channel</p> <p><i>Safia Akram Khalid Saeed Maria Athar Arshad Riaz Alia Razia Malik Emad E. Mahmoud</i> <i>Particulate Science and Technology</i>, Volume 43, Issue 2, Pages 229-246</p> <p>Impact Factor: 2.300 Quartile: 3 DOI: https://doi.org/10.1080/02726351.2025.2450410</p>	2025
<p>Enhancing retention of biological fluid transport of magnetized thermal radiative pseudoplastic nanofluid with double diffusion convection, viscous dissipation and boundary slips</p> <p><i>Safia Akram Khalid Saeed Maria Athar Arshad Riaz Alia Razia Mushrifah A. S. Al-Malki</i> <i>Particulate Science and Technology</i>, Pages: 14</p> <p>Impact Factor: 2.3 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1080/02726351.2024.2412654</p>	2024
<p>Numerical analysis on theoretical model of magneto-Williamson nanofluid in relation to viscous dissipation, double-diffusion convection, thermal radiation and multiple slip boundaries</p> <p><i>Sardar Bilal Safia Akram Maria Athar Khalid Saeed Alia Razia Arshad Riaz</i> <i>PRAMANA-Journal of Physics</i>, Volume 98, Article Number 125</p> <p>Impact Factor: 1.900 Quartile: 2 Citations: 7 DOI: https://doi.org/10.1007/s12043-024-02798-z</p>	2024
<p>Effects of Tapering and Electro-Osmosis on Copper-Suspended Nanofluid Through a Composite Stenosed Artery with Permeable Walls: Exact Solutions</p> <p><i>Ahmed Zeeshan Arshad Riaz Asfand Javaid Tayyab Nawaz Safia Akram</i> <i>Brazilian Journal of Physics</i>, Volume 54, Article Number 195</p> <p>Impact Factor: 1.500 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1007/s13538-024-01576-x</p>	2024
<p>Dissipative and Multiple Slips on Thermally Radiative Biological Fluid of Magneto-Six-Constant Jeffrey Nanofluid with Double Diffusion Convection: A Numerical Investigation</p> <p><i>Sardar Bilal Safia Akram Maria Athar Khalid Saeed Arshad Riaz Alia Razia</i> <i>BioNanoScience</i>, Pages 1-16</p> <p>Impact Factor: 3.000 Quartile: 3 Citations: 9 DOI: https://doi.org/10.1007/s12668-024-01560-4</p>	2024
<p>A peristaltic motion for pressure driven flow of Casson nanoliquid along with gyrotactic microorganisms in an entropic porous channel: A numerical study</p>	2024

Arshad Riaz Mehpara Shehzadi Safia Akram Ghaliah Alhamzi Emad E. Mahmoud
Materials Today Communications, Volume 40, Article Number 109971

Impact Factor: 3.700 | Quartile: 2 | Citations: 11
DOI: <https://doi.org/10.1016/j.mtcomm.2024.109971>

Numerical simulation of double diffusion convection in a six-constant Jeffrey nanofluid with an inclined magnetic field and viscous dissipation: Multiple slips and thermal radiation analysis with peristalsis

2024

Safia Akram Maria Athar Khalid Saeed Arshad Riaz Alia Razia Ghaliah Alhamzi
AIP Advances, Volume 14(7), Article Number 075229

Impact Factor: 1.400 | Quartile: 4 | Citations: 7
DOI: doi.org/10.1063/5.0219517

Mathematical modeling of thermal transfer in a symmetric peristaltic flow of a Newtonian fluid through a curved duct with entropy generation: a microfluidics application

2024

Arshad Riaz Ayesha Siddiqi Safia Akram Tayyab Nawaz Sami Ullah Khan Shafiq Ur Rehman
International Journal of Modelling and Simulation, Pages 1-17

Impact Factor: 3.100 | Quartile: 1 | Citations: 7
DOI: <https://doi.org/10.1080/02286203.2024.2363603>

A computational simulation for peristaltic flow of thermally radiative sisko nanofluid with viscous dissipation, double diffusion convection and induced magnetic field

2024

Sardar Bilal Safia Akram Khalid Saeed Maria Athar Arshad Riaz Alia Razia
Numerical Heat Transfer, Part A: Applications, Pages 1-22

Impact Factor: 2.000 | Quartile: 3 | Citations: 8
DOI: <https://doi.org/10.1080/10407782.2024.2335557>

Impact of multiple slips on thermally radiative peristaltic transport of Sisko nanofluid with double diffusion convection, viscous dissipation, and induced magnetic field

2024

Humaira Yasmin Safia Akram Maria Athar Khalid Saeed Alia Razia J. G. Al-Juaid
Nanotechnology Reviews, Volume 13, Issue 1, Article Number 20240004

Impact Factor: 7.400 | Quartile: 1 | Citations: 9
DOI: <https://doi.org/10.1515/ntrev-2024-0004>

Mechanism of Thermally Radiative Prandtl Nanofluids and Double-Diffusive Convection in Tapered Channel on Peristaltic Flow with Viscous Dissipation and Induced Magnetic Field

2024

Yasir Khan Safia Akram Maria Athar Khalid Saeed Alia Razia A. Alameer
Computer Modelling in Engineering & Sciences, Volume 138(2), Pages 1501-1520

Impact Factor: 2.4 | Quartile: 2 | Citations: 13
DOI: DOI:10.32604/cmes.2023.029878

Improved model order reduction techniques with error bounds

2023

Shabana Basharat Muhammad Imran Safia Akram Abdul Wakeel Nauman Anwar Baig Asim Zaheer Ud-Din
International Journal of Systems Science, Pages 1-14

Impact Factor: 4.3 | Quartile: 1 | Citations: 2
DOI: <https://doi.org/10.1080/00207721.2023.2293683>

Analysis of incompressible viscous fluid flow in convergent and divergent channels with a hybrid meta-heuristic optimization techniques in ANN: An intelligent approach.

2023

ASLAM Muhammad Naeem RIAZ Arshad SHAUKAT Nadeem ALI Shahzad Safia Akram BHATTI M. M.
Journal of Central South University, Vol:30, Pages: 4149–4167

Impact Factor: 4.4 | Quartile: 1 | Citations: 19
DOI: 10.1007/s11771-023-5514-2

Role of thermal radiation and double-diffusivity convection on peristaltic flow of induced magneto-Prandtl nanofluid with viscous dissipation and slip boundaries

2023

Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad
Journal of Thermal Analysis and Calorimetry, Pages 1-16

Impact Factor: 4.4 | Quartile: 1 | Citations: 24
DOI: <https://doi.org/10.1007/s10973-023-12643-x>

Mechanism of double diffusive convection due to magnetized Williamson nanofluid flow in tapered asymmetric channel under the influence of peristaltic propulsion and radiative heat transfer

2023

Safia Akram Maria Athar Khalid Saeed Mir Yasir Umair Taseer Muhammad
International Journal of Numerical Methods for Heat & Fluid Flow, Pages 1-22

<p>Impact Factor: 4.2 Quartile: 1 Citations: 22 DOI: https://doi.org/10.1108/HFF-04-2023-0169</p>	
<p>Influence of an induced magnetic field on double diffusion convection for peristaltic flow of thermally radiative Prandtl nanofluid in non-uniform channel Author links open overlay panel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia</i> <i>Tribology International</i>, Volume 187, Article Number 108719</p> <p>Impact Factor: 6.2 Quartile: 1 Citations: 43 DOI: 10.1016/j.triboint.2023.108719</p>	2023
<p>Convection theory on thermally radiative peristaltic flow of Prandtl tilted magneto nanofluid in an asymmetric channel with effects of partial slip and viscous dissipation</p> <p><i>Safia Akram Khalid Saeed Maria Athar Alia Razia Anwar Hussain Iram Naz</i> <i>Materials Today Communications</i>, Volume 35, Article Number 106171</p> <p>Impact Factor: 3.662 Quartile: 3 Citations: 25 DOI: 10.1016/j.mtcomm.2023.106171</p>	2023
<p>Roll of partial slip on Ellis nanofluid in the proximity of double diffusion convection and tilted magnetic field: Application of Chyme movement</p> <p><i>Yasir Khan Maria Athar Safia Akram Khalid Saeed Alia Razia A. Alameer</i> <i>Heliyon</i>, Volume 9, Issue 4, Article Number e14760</p> <p>Impact Factor: 3.776 Quartile: 2 Citations: 20 DOI: https://doi.org/10.1016/j.heliyon.2023.e14760</p>	2023
<p>Mechanism of Double-Diffusive Convection on Peristaltic Transport of Thermally Radiative Williamson Nanomaterials with Slip Boundaries and Induced Magnetic Field: A Bio-Nanoengineering Model</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad Huda Ahmed Alghamdi</i> <i>Nanomaterials</i>, Volume 13, Issue 5, Article Number 941</p> <p>Impact Factor: 5.3 Quartile: 1 Citations: 25 DOI: https://doi.org/10.3390/nano13050941</p>	2023
<p>Theoretical analysis of partial slip on double-diffusion convection of Eyring-Powell nanofluids under the effects of peristaltic propulsion and inclined magnetic field</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia</i> <i>Journal of Magnetism and Magnetic Materials</i>, Volume 569, Article Number 170445</p> <p>Impact Factor: 3.097 Quartile: 3 Citations: 21 DOI: https://doi.org/10.1016/j.jmmm.2023.170445</p>	2023
<p>Mathematical simulation of double diffusion convection on peristaltic pumping of Ellis nanofluid due to induced magnetic field in a non-uniform channel: Applications of magnetic nanoparticles in biomedical engineering</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad Huda Ahmed Alghamdi</i> <i>Journal of Magnetism and Magnetic Materials</i>, Volume 569, Article Number 170408</p> <p>Impact Factor: 3.097 Quartile: 3 Citations: 25 DOI: https://doi.org/10.1016/j.jmmm.2023.170408</p>	2023
<p>Hybrid double-diffusivity convection and induced magnetic field effects on peristaltic waves of Oldroyd 4-constant nanofluids in non-uniform channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad Anwar Hussain</i> <i>Alexandria Engineering Journal</i>, Volume 65, Pages 785-796</p> <p>Impact Factor: 6.626 Quartile: 1 Citations: 36 DOI: https://doi.org/10.1016/j.aej.2022.10.039</p>	2023
<p>Outcomes of Partial Slip on Double-Diffusive Convection on Peristaltic Waves of Johnson–Segalman Nanofluids Under the Impact of Inclined Magnetic Field</p> <p><i>Khalid Saeed Safia Akram Adeel Ahmad</i> <i>Arabian Journal for Science and Engineering</i>, Pages 1-17</p> <p>Impact Factor: 2.807 Quartile: 2 Citations: 25 DOI: https://doi.org/10.1007/s13369-023-07706-y</p>	2023
<p>Radio Frequency Identification Temperature/CO2 Sensor Using Carbon Nanotubes</p> <p><i>Ayesha Habib Safia Akram Mohamed R. Ali Taseer Muhammad Sajeela Zainab Shafia Jehangir</i> <i>Nanomaterials</i>, Volume 13(2), Article Number 273</p> <p>Impact Factor: 5.3 Quartile: 1 Citations: 12 DOI: https://doi.org/10.3390/nano13020273</p>	2023

<p>Theoretical investigation of double diffusion convection of six constant Jeffreys nanofluid on waves of peristaltic with induced magnetic field: a bio-nano-engineering model</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad</i></p> <p><i>Waves in Random and Complex Media</i>, Pages 1-21</p> <p>Impact Factor: 4.051 Quartile: 2 Citations: 22</p> <p>DOI: https://doi.org/10.1080/17455030.2022.2134600</p>	2022
<p>Impact of slip boundaries on double diffusivity convection in an asymmetric channel with magneto-tangent hyperbolic nanofluid with peristaltic flow</p> <p><i>Khalid Saeed Safia Akram Adeel Ahmad Maria Athar Alia Razia Taseer Muhammad</i></p> <p><i>ZAMM-Zeitschrift fur Angewandte Mathematik und Mechanik</i>, Pages 1-15, Article Number e202100338</p> <p>Impact Factor: 1.759 Quartile: 2 Citations: 27</p> <p>DOI: https://doi.org/10.1002/zamm.202100338</p>	2022
<p>Consequence of Double-Diffusion Convection and Partial Slip on Magneto-Oldroyd-4 Constants Nanofluids with Peristaltic Propulsion in an Asymmetric Channel</p> <p><i>Maria Athar Yasir Khan Safia Akram Khalid Saeed A. Alameer Anwar Hussain</i></p> <p><i>Complexity</i>, Volume 2022, Article ID 7634357, 20 pages</p> <p>Impact Factor: 2.121 Quartile: 2 Citations: 14</p> <p>DOI: https://doi.org/10.1155/2022/7634357</p>	2022
<p>Effects of Double Diffusive Convection and Inclined Magnetic Field on the Peristaltic Flow of Fourth Grade Nanofluids in a Non-Uniform Channel</p> <p><i>Yasir Khan Safia Akram Alia Razia Anwar Hussain H. A. Alsulaimani</i></p> <p><i>Nanomaterials</i>, Volume 12(17), Article Number 3037</p> <p>Impact Factor: 5.719 Quartile: 1 Citations: 33</p> <p>DOI: https://doi.org/10.3390/nano12173037</p>	2022
<p>Impact of Partial Slip on Double Diffusion Convection of Sisko Nanofluids in Asymmetric Channel with Peristaltic Propulsion and Inclined Magnetic Field</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Metib Alghamdi Taseer Muhammad</i></p> <p><i>Nanomaterials</i>, Volume 12(16), Article Number 2736</p> <p>Impact Factor: 5.719 Quartile: 1 Citations: 28</p> <p>DOI: https://doi.org/10.3390/nano12162736</p>	2022
<p>The role of double-diffusion convection and induced magnetic field on peristaltic pumping of a johnson–segalman nanofluid in a non-uniform channel</p> <p><i>Yasir Khan Safia Akram Maria Athar Khalid Saeed Taseer Muhammad Anwar Hussain Muhammad Imran H. A. Alsulaimani</i></p> <p><i>Nanomaterials</i>, Volume 12(7), Article Number 1051</p> <p>Impact Factor: 5.076 Quartile: 2 Citations: 28</p> <p>DOI: https://doi.org/10.3390/nano12071051</p>	2022
<p>Impact of partial slip on double diffusion convection and inclined magnetic field on peristaltic wave of six-constant Jeffreys nanofluid along asymmetric channel</p> <p><i>Khalid Saeed Safia Akram Adeel Ahmad Maria Athar Muhammad Imran Taseer Muhammad</i></p> <p><i>European Physical Journal Plus</i>, Volume 137, Article Number: 364</p> <p>Impact Factor: 3.911 Quartile: 1 Citations: 25</p> <p>DOI: https://doi.org/10.1140/epjp/s13360-022-02553-6</p>	2022
<p>Nanomaterials effects on induced magnetic field and double-diffusivity convection on peristaltic transport of Prandtl nanofluids in inclined asymmetric channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Mir Yasir Umair</i></p> <p><i>Nanomaterials and Nanotechnology</i>, Volume 12, Pages 1-10</p> <p>Impact Factor: 3.116 Quartile: 2 Citations: 22</p> <p>DOI: https://doi.org/10.1177/18479804211048630</p>	2022
<p>Impact of slip on nanomaterial peristaltic pumping of magneto-Williamson nanofluid in an asymmetric channel under double-diffusivity convection</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia</i></p> <p><i>Pramana</i>, Volume 96, Article Number 57</p> <p>Impact Factor: 2.219 Quartile: 2 Citations: 19</p> <p>DOI: https://doi.org/10.1007/s12043-021-02287-7</p>	2022
<p>Double-diffusive convection on peristaltic flow of hyperbolic tangent nanofluid in non-uniform channel with induced magnetic field</p>	2022

<p><i>Safia Akram Alia Razia Mir Yasir Umair Tuqa Abdulrazzaq Raad Z. Homod</i> <i>Mathematical Methods in the Applied Sciences</i>, Pages 1-18</p> <p>Impact Factor: 2.321 Quartile: 1 Citations: 19 DOI: https://doi.org/10.1002/mma.8188</p>	2022
<p>Slip impact on double-diffusion convection of magneto-fourth-grade nanofluids with peristaltic propulsion through inclined asymmetric channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Muhammad Imran Taseer Muhammad</i> <i>Journal of Thermal Analysis and Calorimetry</i>, Pages 1-14</p> <p>Impact Factor: 4.4 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1007/s10973-021-11150-1</p>	2021
<p>Slip boundaries effects on double-diffusive convection of magneto-pseudoplastic nanofluid on peristaltic flux in an inclined asymmetric channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad Anwar Hussain</i> <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i>, Pages 1-13</p> <p>Impact Factor: 1.620 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1177/09544089211063071</p>	2021
<p>Numerical simulation of effects of Soret and Dufour parameters on the peristaltic transport of a magneto six-constant Jeffreys nanofluid in a non-uniform channel: a bio-nanoengineering model</p> <p><i>Safia Akram Maria Athar Khalid Saeed</i> <i>European Physical Journal-Special Topics</i>, Pages 1-9</p> <p>Impact Factor: 2.707 Quartile: 2 Citations: 25 DOI: https://doi.org/10.1140/epjs/s11734-021-00348-x</p>	2021
<p>Partial Slip Impact on Double Diffusive Convection Flow of Magneto-Carreau Nanofluid through Inclined Peristaltic Asymmetric Channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Taseer Muhammad Mir Yasir Umair</i> <i>Mathematical Problems in Engineering</i>, Volume 2021, Article ID 2475846, 14 pages</p> <p>Impact Factor: 1.430 Quartile: 3 Citations: 5 DOI: https://doi.org/10.1155/2021/2475846</p>	2021
<p>Hybridized consequence of thermal and concentration convection on peristaltic transport of magneto Powell– Eyring nanofluids in inclined asymmetric channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia Taseer Muhammad</i> <i>Mathematical Methods in the Applied Sciences</i>, Pages 1-17</p> <p>Impact Factor: 2.321 Quartile: 1 Citations: 27 DOI: https://doi.org/10.1002/mma.7843</p>	2021
<p>Double-diffusive convection with peristaltic wave in Sisko fluids along with inclined magnetic field and channel</p> <p><i>Safia Akram Maria Athar Khalid Saeed Mir Yasir Umair</i> <i>Waves in Random and Complex Media</i>, Pages 1-23</p> <p>Impact Factor: 4.853 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1080/17455030.2021.1983238</p>	2021
<p>Crossbreed impact of double-diffusivity convection on peristaltic pumping of magneto Sisko nanofluids in non-uniform inclined channel: A bio-nanoengineering model</p> <p><i>Safia Akram Maria Athar Khalid Saeed Alia Razia</i> <i>Science Progress</i>, Volume 104(3), Pages 1–23</p> <p>Impact Factor: 1.512 Quartile: 3 Citations: 14 DOI: https://doi.org/10.1177/00368504211033677</p>	2021
<p>Enhanced Fingerprinting Based Indoor Positioning Using Machine Learning</p> <p><i>Waleed Pasha Mir Yasir Umair Alina Mirza Rao Muhammad Faizan Gull Safia Akram Fazli Subhan Wazir Zada Khan Abdul Wakeel</i> <i>CMC-Computers, Materials & Continua</i>, Volume 69, No.2, Pages 1631-1652</p> <p>Impact Factor: 3.860 Quartile: 2 Citations: 5 DOI: https://doi.org/10.32604/cmc.2021.018205</p>	2021
<p>Hybrid impact of thermal and concentration convection on peristaltic pumping of Prandtl nanofluids in non-uniform inclined channel and magnetic field</p> <p><i>Safia Akram Maria Athar Khalid Saeed</i> <i>Case Studies in thermal Engineering</i>, Volume 25, Article Number 100965</p> <p>Impact Factor: 6.268 Quartile: 1 Citations: 57</p>	2021

DOI: <https://doi.org/10.1016/j.csite.2021.100965>

Hybrid effects of thermal and concentration convection on peristaltic flow of fourth grade nanofluids in an inclined tapered channel: Applications of double-diffusivity

2021

Safia Akram Alia Razia Malik

CMES-Computer Modeling in Engineering and Sciences, Volume 127, No.3, Pages 901-922

Impact Factor: 2.027 | Quartile: 2 | Citations: 15

DOI: [doi:10.32604/cmes.2021.014469](https://doi.org/10.32604/cmes.2021.014469)

Double-diffusivity convection on Powell-Eyring nanofluids in non-uniform inclined channel under the impact of peristaltic propulsion and induced magnetic field

2021

Safia Akram Maria Athar Khalid Saeed Mir Yasir Umair

European Physical Journal Plus, Volume 136, Article Number 494

Impact Factor: 3.758 | Quartile: 2 | Citations: 18

DOI: <https://doi.org/10.1140/epjp/s13360-021-01506-9>

Impact of partial slip and lateral walls on peristaltic transport of a couple stress fluid in a rectangular duct

2021

Safia Akram Najma Saleem Mir Yasir Umair Sufian Munawar

Science Progress, Volume 104(2), Pages 1-17

Impact Factor: 1.512 | Quartile: 3 | Citations: 11

DOI: [10.1177/00368504211013632](https://doi.org/10.1177/00368504211013632)

Characteristic sets verses generalized characteristic sets

2021

Safia Akram Muhammad Ashiq Deebea Afzal Murat Cancan Suleyman Ediz Farkhanda Afzal

Journal of Discrete Mathematical Sciences and Cryptography, Volume 24, Issue 2, Pages 439-450

Impact Factor: - | Citations: 3

DOI: <https://doi.org/10.1080/09720529.2021.1882160>

On Stokes' second problem for Burgers' fluid over a plane wall

2021

Safia Akram Asia Anum Masood Khan Anwar Hussain

Journal of Applied and Computational Mechanics, Volume 7, Issue 3, Pages 1514-1526

Impact Factor: - | Citations: 9

DOI: [10.22055/JACM.2020.35227.2603](https://doi.org/10.22055/JACM.2020.35227.2603)

Thermal and concentration convection in nanofluids for peristaltic flow of magneto couple stress fluid in a nonuniform channel

2021

Safia Akram Qamar Afzal R. Ellahi Sadiq M. Sait Faryal Chaudhry

Journal of Thermal Analysis and Calorimetry, Pages 1-16

Impact Factor: 4.755 | Quartile: 1 | Citations: 32

DOI: <https://doi.org/10.1007/s10973-020-10340-7>

Half-breed effects of thermal and concentration convection of peristaltic pseudoplastic nanofluid in a tapered channel with induced magnetic field

2020

Safia Akram Qamar Afzal Emad H. Aly

Case Studies in Thermal Engineering, Volume 22, Article Number 100775

Impact Factor: 4.724 | Quartile: 1 | Citations: 50

DOI: <https://doi.org/10.1016/j.csite.2020.100775>

Effects of thermal and concentration convection and induced magnetic field on peristaltic flow of Williamson nanofluid in inclined uniform channel

2020

Safia Akram Qamar Afzal

European Physical Journal Plus, Volume 135, Article Number 857

Impact Factor: 3.911 | Quartile: 1 | Citations: 40

DOI: <https://doi.org/10.1140/epjp/s13360-020-00869-9>

Impact of double-diffusivity convection in nanofluids and induced magnetic field on peristaltic pumping of a Carreau fluid in a tapered channel with different wave forms

2020

Safia Akram Qamar Afzal Qamar Afzal

Journal of Thermal Analysis and Calorimetry, Pages 1-22

Impact Factor: 4.626 | Quartile: 1 | Citations: 21

DOI: <https://doi.org/10.1007/s10973-020-09776-8>

Analysis of heating effects and different wave forms on peristaltic flow of Carreau fluid in rectangular duct

2020

Safia Akram Najma Saleem Najma Saleem

Impact Factor: 1.128 | **Quartile:** 3 | **Citations:** 18

DOI: <https://doi.org/10.1155/2020/8294318>

Impact of nanofluids and magnetic field of the peristaltic transport of a couple stress fluid in an asymmetric channel with different wave forms

2020

Farkhanda Afzal Safia Akram Qamar Afzal

Thermal Science, Volume 24, Issue 2 Part B, Pages: 1407-1422

Impact Factor: 1.625 | **Quartile:** 4 | **Citations:** 11

DOI: <https://doi.org/10.2298/TSCI190720389A>

Effects of velocity second slip model and induced magnetic field on peristaltic transport of non-Newtonian fluid in the presence of double-diffusivity convection in nanofluids

2020

Safia Akram Alia Razia Malik Farkhanda Afzal

Archive of Applied Mechanics, Pages 1-21

Impact Factor: 1.976 | **Quartile:** 3 | **Citations:** 49

DOI: 10.1007/s00419-020-01685-4

Impact of Velocity Second Slip and Inclined Magnetic Field on Peristaltic Flow Coating with Jeffrey Fluid in Tapered Channel

2020

Safia Akram Farkhanda Afzal Najma Saleem Emad H. Aly Anwar Hussain

Coatings, Volume 10(1), Article Number 30

Impact Factor: 2.881 | **Quartile:** 2 | **Citations:** 21

DOI: doi:10.3390/coatings10010030

Influence of metachronal wave on hyperbolic tangent fluid model with inclined magnetic field

2019

Safia Akram Farkhanda Afzal Muhammad Imran

International Journal of Geometric Methods in Modern Physics, Volume 16, Issue 9, Article Number 1950139

Impact Factor: 1.287 | **Quartile:** 3 | **Citations:** 8

DOI: 10.1142/S0219887819501391

Effect of the Variable Viscosity on the Peristaltic Flow of Newtonian Fluid Coated with Magnetic Field: Application of Adomian Decomposition Method for Endoscope

2019

Safia Akram Farkhanda Afzal Emad H. Aly Sohail Nadeem

Coatings, Volume: 9 Issue: 8

Impact Factor: 2.436 | **Quartile:** 2 | **Citations:** 15

DOI: 10.3390/coatings9080524

Peristaltic transport of a Jeffrey fluid with double-diffusive convection in nanofluids in the presence of inclined magnetic field

2018

Safia Akram M. Zafar S. Nadeem

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Impact Factor: 1.022 | **Quartile:** 3 | **Citations:** 37

DOI: 10.1142/S0219887818501815

Particulate suspension slip flow induced by peristaltic waves in a rectangular duct: Effect of lateral walls

2018

Kh.S. Mekheimer Y. Abd elmaboud Safia Akram

Alexandria Engineering Journal, Volume 57, Issue 1, Pages 407-414

Impact Factor: 3.696 | **Quartile:** 1 | **Citations:** 33

DOI: <https://doi.org/10.1016/j.aej.2016.09.011>

Influence of Nanoparticles Phenomena on the Peristaltic Flow of Pseudoplastic Fluid in an Inclined Asymmetric Channel with Different Wave Forms

2017

Sohail Nadeem Safia Akram

Iranian Journal of Chemistry and Chemical Engineering-International English Edition, Volume 36, Issue 2, Pages 107-124

Impact Factor: 0.860 | **Quartile:** 4

Effects of inclined magnetic field on peristaltic flow of a hyperbolic tangent fluid model with double-diffusive convection in nanofluids

2016

Safia Akram M. Zafar Anwar Hussain M. A.Rana

Revista Tecnica de la Facultad de Ingenieria Universidad del Zulia, Volume 39, Issue 8, Pages 186-207

Impact Factor: 0

DOI: 10.21311/001.39.8.24

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Limited frequency interval Gramians based model reduction for nonsingular generalized systems <i>Safia Akram Muhammad Imran Abdul Ghafoor Victor Sreeram</i> <i>3rd Australian Control Conference (AUCC)</i> , res.country(13,) Citations: N/A DOI: 978-1-4799-2498-1	2013

Editorial Activities

International Journal of Modelling and Simulation Reviewed Papers for Journals Impact Factor: 3.9	2025
Electromagnetic Biology and Medicine Reviewed Papers for Journals Impact Factor: 1.5	2025
Partial Differential Equations in Applied Mathematics Reviewed Papers for Journals Impact Factor: N/A	2025
Engineering Applications of Artificial Intelligence Reviewed Papers for Journals Impact Factor: 8.0	2025
Intelligent Journal System Reviewed Papers for Journals Impact Factor: N/A	2025
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Case Studies in Thermal Engineering Reviewed Papers for Journals	2025

Impact Factor: 6.8	
Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.4	2025
Journal of Computational Design and Engineering Reviewed Papers for Journals Impact Factor: 4.8	2025
Applied Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.1	2024
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Stefan Odenbach Reviewed Papers for Journals Impact Factor: 2.3	2024
Chinese Journal of Physics Reviewed Papers for Journals Impact Factor: 4.6	2024
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Impact Factor: 3.4	
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Impact Factor: 6.8	
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European Journal of Mechanics / B Fluids	2024
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Numerical Heat Transfer, Part A: Applications	2024
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Arabian Journal of Chemistry	2024
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Journal of Applied Mathematics and Mechanics	2024
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Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.8	2024
Modern Physics Letters B Reviewed Papers for Journals Impact Factor: 1.9	2024
Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.8	2024
Results in Engineering Reviewed Papers for Journals Impact Factor: 5	2024
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Case Studies in Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.8	2023
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Numerical Heat Transfer, Part A: Applications Reviewed Papers for Journals	2023

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Applied Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.4	2023
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Numerical Heat Transfer, Part B: Fundamentals Reviewed Papers for Journals Impact Factor: 1.378	2023
Symmetry Reviewed Papers for Journals Impact Factor: 2.94	2023
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Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences Reviewed Papers for Journals Impact Factor: 1.712	2023
Applied Thermal Engineering Reviewed Papers for Journals Impact Factor: 6.465	2023
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Engineering Research Express Reviewed Papers for Journals Impact Factor: N/A	2023
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Impact Factor: 3.985	
FDMP-Fluid Dynamics & Materials Processing	2023
Edited Journal Issue / Proceeding / Book	
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Iranian Journal of Chemistry & Chemical Engineering-International English E	2023
Reviewed Papers for Journals	
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Materials	2023
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International Journal of Modern Physics B	2023
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Archive of Applied Mechanics	2023
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Iranian Journal of Chemistry & Chemical Engineering-International English E	2022
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Journal of Mathematics	2022
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Journal of Applied Mathematics and Mechanics	2022
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Journal of Mathematics Reviewed Papers for Journals Impact Factor: 1.555	2022
Fluid Dynamics & Materials Processing Edited Journal Issue / Proceeding / Book Impact Factor: NA	2022
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Reviewed Papers for Journals Impact Factor: 1.663	2021
Reviewed Papers for Journals Impact Factor: 5.606	2021
Reviewed Papers for Journals Impact Factor: 4.724	2021
Reviewed Papers for Journals Impact Factor: 4.724	2021
Reviewed Papers for Journals Impact Factor: 3.24	2021
Reviewed Papers for Journals Impact Factor: 4.724	2021
Reviewed Papers for Journals Impact Factor: 5.295	2021
Reviewed Papers for Journals	2021

Impact Factor: 3.911	
Reviewed Papers for Journals	2021
Impact Factor: 2.253	
Reviewed Papers for Journals	2021
Impact Factor: 4.774	
Reviewed Papers for Journals	2021
Impact Factor: 4.01	
Reviewed Papers for Journals	2021
Impact Factor: 4.01	
Reviewed Papers for Journals	2021
Impact Factor: 1.161	
Reviewed Papers for Journals	2021
Reviewed Papers for Journals	2021
Impact Factor: 1.985	
Reviewed Papers for Journals	2021
Reviewed Papers for Journals	2021
Impact Factor: 4.774	
Reviewed Papers for Journals	2021
Impact Factor: 4.725	
Reviewed Papers for Journals	2021
Reviewed Papers for Journals	2020
Impact Factor: 4.774	
Editor in Chief of Journal	2020
Edited Journal Issue / Proceeding / Book	2020
Reviewed Papers for Journals	2020
Impact Factor: 1.985	
Reviewed Papers for Journals	2020
Impact Factor: 0.68	
Reviewed Papers for Journals	2020
Impact Factor: 2.731	
Reviewed Papers for Journals	2020
Impact Factor: 0.22	

Reviewed Papers for Journals Impact Factor: 4.774	2020
Reviewed Papers for Journals Impact Factor: 1.985	2020
Editor in Chief of Journal Impact Factor: NA	2020
Reviewed Papers for Journals Impact Factor: 1.574	2020
Reviewed Papers for Journals Impact Factor: -	2020
Reviewed Papers for Journals Impact Factor: -	2020
Reviewed Papers for Journals	2020
Reviewed Papers for Journals Impact Factor: 1.424	2020
Reviewed Papers for Journals Impact Factor: 4.664	2020
Reviewed Papers for Journals Impact Factor: 4.664	2020
Reviewed Papers for Journals Impact Factor: 0.933	2019