

Dr. Santoshi Misra
LIST OF PUBLICATIONS

Research Profile ID's

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Web of Science: HTP-5322-2023

Research Publications-International/National

2025-26 Published Research Paper Details

1. **V. Meenakshi, S. Renuka, P. Sreehari, Santoshi Misra and G. Sreedhar Sarma** Published a Research Paper titled **“Impact of Chemical Reaction on Three-Dimensional Casson Nanofluid Flow over a Rotating Surface with Prescribed Heat Flux, Viscous Dissipation, and Heat Source/Sink Effects”** in The Bulletin of Parana's Mathematical Society, named Boletim da Sociedade Paranaense de Matematica (BSPM) Bol. Soc. Paran. Mat. (3s.) v. 2025 (43): Pgs: 1–19. @ SPM – E-ISSN-2175-1188 ISSN-0037-8712, SPM: www.spm.uem.br/bspm doi:10.5269/bspm.77845 on September 30th, 2025 (SCOPUS INDEXED)
2. **G. Narender, Santoshi Misra, K. Govardhan, Amit Kumar, Abhishek Painuly** Published a Research Paper titled **“Heat and mass transfer in radiative magnetohydrodynamics stagnation flow of upper-convected Maxwell fluids over porous sheets with applications to industrial thermal processing”** in the Journal titled **Thermal Science and Engineering Progress** 73 (2026) 104630 Q1 SCOPUS INDEXED journal homepage: www.sciencedirect.com/journal/thermal-science-and-engineering-progress

2024-25 Published Research Paper Details

1. **Dachapally Swapna, Kamatam Govardhan, Ganji Narender,* Santoshi Misra** Published Research Paper Titled **“MHD Stagnation Point Flow of Micropolar Fluid over a Stretching/Shrinking Sheet”** in CFD Letters 16, Issue 12 (2024) 113-127 ISSN: 2180-1363 SCOPUSQ3 https://semarakilmu.com.my/journals/index.php/CFD_Letters/index
2. **Sreenivasa Somireddy Reddy , Kamatam Govardhan, Ganji Narenderc*, Santoshi Misra** Published Research Paper Titled **“Investigating the effect of an inclined magnetic field on heat and mass transmission in turbulent squeeze flow of UCM fluid between parallel plates”** in the Journal Archives of Thermodynamics Received: 23.11.2023, Revised: 21.06.2024; Accepted: 10.09.2024 Vol. 45(2024), No. 4, 169 178; doi: 10.24425/ather.2024.152006 <https://www.imp.gda.pl/archives-of-thermodynamics/>
3. **G. Thirupathi, K. Govardhan, G. Nagaraju, Santoshi Misra** Published Research Paper Titled: **MHD upper-Convected Maxwell hybrid Nano fluid over a stretching sheet: A numerical approach** in Journal Sigma Journal of Engineering and Natural Sciences Sigma J Eng Nat Sci, Vol. 43, No. 2, pp. 1–12, April, 2025 Web page info: <https://sigma.yildiz.edu.tr>

4. **Dr. Santoshi Misra, Dr. Sirisha David** Published a paper on “Empowering Women in Pioneering Mathematics: a Rigorous and Inclusive STEM Paradigm for Vikasit Bharat 2047” to “International Journal of Automation, Artificial Intelligence and Machine Learning”, with ISSN 2563- 7568, Int J Auto AI Mach Learn, Vol 4, Issue 2, December 2024 a preprint of the same is on Qeios Platform online <https://researchlakejournals.com/index.php/AAIML>
5. **Dr. Santoshi Misra** Published an article on “Mathematical Modeling of Infectious Disease Spread Using the SIR Model” in Biomedical Journal of Scientific and Technical Research with ISSN: 2574 - 1241, Volume 59, Issue-3 <https://biomedres.us/>
6. **Dr. Santoshi Misra, Dr. Sirisha David** Published a Research Paper titled “Optimizing Air Quality and Pollution Control in Diesel Engines: A Mathematical Perspective” to “International Journal of Automation, Artificial Intelligence and Machine Learning”, with ISSN 2563-7568. online <https://researchlakejournals.com/index.php/AAIML>

2023-24 Published Research Paper Details

1. **Srinivas Reddy, K. Govardhan, G. Narender, Dr. Santoshi Misra:** 3D MHD Radiation flow of Unsteady Casson Fluid with Viscous Dissipation Effect: Iraqi Journal of Science, 2023, Vol.64, No.7, PP: 4918-4933, DOI: 10.24996/ij.s.2023.64.8.26, ISSN:0067-2904 (SCOPUS)
2. **Dr. Santoshi Misra, Dr. Sirisha David, Mrs. Sreedevi Kasavajhala, Dr. A. Vijaya Rani:** Chaya Someswara Temple - An Inexplicable and Magnificent glory of Indian Knowledge System: Heritage Research Journal HRJ, Volume 71, Issue 11, UGC Care Group 1 Journal An ISO: 7021 - 2008 Certified, ISSN No: 0474-9030 Web: <https://heritageresearchjournal.com/>, Email: editorhrj@gmail.com CERTIFICATE ID:HRJ-R1590, Impact Factor:5.31
3. **Dr. Santoshi Misra., Dr. G.Narender., Dr. K. Govardhan:** Viscous Dissipation and Chemical Reaction on Radiate MHD Casson Nanofluid Past a Stretching Surface with a Slip Effect, Journal of Heat and Mass Transfer Research 10 (2023), Serial Number 20, 315 – 328 Journal homepage: <https://jhmtr.semnan.ac.ir> ISSN: 2383-3068 (SCOPUS)
4. **Dr. Santoshi Misra., Dr. G.Narender., Dr. K. Govardhan, G. Thirupathi, P. Kavitha:** Exploring the Impact of Thermal Radiation, Viscous Dissipation, and Magnetic Field on Micropolar Fluid flow over a Shrinking Surface with Velocity Slip JP Journal of Heat and Mass Transfer <https://pphmjopenaccess.com>
5. <http://dx.doi.org/10.17654/0973576324001> Volume 37, Number 1, 2024, Pages 1-21 P-ISSN: 0973-5763 (SCOPUS)

2020-22 Published Research Paper Details

1. **K. Govardhan., Santoshi Misra., G. Narender:** The Effect of Chemical Reaction of a Nano fluid past a permeable stretching sheet with MHD Boundary layer flow and Heat Transfer: **AIP Conference Proceedings 2246, 020008 (2020);** <https://doi.org/10.1063/5.0014551> Published Online:28 July 2020 (SCOPUS)
2. **Santoshi Misra., K. Govardhan:** Influence of Chemical Reaction on the Heat and Mass Transfer of Nano fluid over A Nonlinear Stretching Sheet: A Numerical Study: **Int. J. of Applied Mechanics and Engineering, 2020, Vol 25, No.2, PP 103-121 DOI: 10.2478/ijame-2020-0023 (SCOPUS)**
3. **Santoshi Misra., Govardhan Kamatam:** Effect of Magnetic Field, Heat Generation and Absorption on Nanofluid flow over a nonlinear stretching sheet: **Beilstein Journal of Nanotechnology, Beilstein J. Nanotechnol. 2020, Vol 11, PP 976–990. DOI:**

2016-19 Published Research Paper Details

1. Published a paper in the year 2016 titled “**A Mathematical Model for Earthquake Forecasting using Seismic Design**” in an International Journal- Discovery with ISSN: 2278-5469, Impact Factor:4, Volume 52, Issue 243, March 2016.
2. Published a paper titled “**Effective Teaching aids to improvise the quality of Mathematics Education for the undergraduate students**” in UGC recognized International Journal of Research and Analytical reviews, with an Impact Factor 3.215at Integrated International Immersion Conference organized by LOYOLA ACADEMY Degree College, Old Alwal, Secunderabad on 24th Feb 2018.
3. **Santoshi Misra., G. Narender., K. Govardhan:** Numerical solution of boundary layer flow of MHD nanofluid over a stretching surface with chemical reaction and viscous dissipation effects: Open Journal of Mathematical Sciences Vol 3(1), PP 289-299 DOI: 10.30538/oms2019.0072
4. **Santoshi Misra, Dr. Sireesha David:** A Mathematical Approach towards the onset of Pandemic Covid-19 and Preventive Measures: Journal Name: ANNQUEST, ISSN- 2321-3043, Special Issue on 2020:9-1 Special Issue COVID-19, Page No's: 1-6
5. **Dr. Santoshi Misra, Dr. Sireesha David:** Significance of Mathematics and Geometry-formation of Temples in India: The golden era of evolution: International Journal of Engineering Research Updates, 2021,01(01),050-055 IJERU- Article DOI: <https://doi.org/10.53430/ijeru.2021.1.1.0056>, ISSN-2783-0187 (online)