



Dr. Mohammad Seraj, PhD
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[Google Scholar Citation](#) | [Web Of Science](#), | [Research gate](#)

PROFILE

Dr. Mohammad Seraj is currently serving as an Assistant Professor in the Department of Mechanical Engineering, Integral University Lucknow since July 2013. He has worked as Assistant Professor in the Department of Mechanical Engineering, Mangalayatan University Aligarh. He has completed B.Tech (ME) in 2010 from AMU Aligarh, M.Tech (Thermal Science) in 2012 from AMU Aligarh, and PhD from Integral University Lucknow in 2022. He has Published 8 research papers in SCI/Scopus and Peer reviewed journals. His area of research is heat transfer analysis of nanofluid in an automotive cooling system and Performance Analysis of LiBr-H₂O vapour absorption refrigeration system.

RESEARCH INTEREST:

- Optimization of the heat transfer performance of nanofluid in an automotive cooling system.
- Performance Analysis of LiBr-H₂O vapour absorption refrigeration system.
- Computational analysis of Microchannel heatsink.

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- | | |
|--|----|
| <input type="checkbox"/> Number of publications in SCI indexed journals | 05 |
| <input type="checkbox"/> Number of publications in Non-Sci/Scopus but Peer Reviewed | 03 |
| <input type="checkbox"/> Number of publications in National /International Conferences | 02 |
| <input type="checkbox"/> Presentation in international conferences | 01 |
| <input type="checkbox"/> The referee for various scientific journals | 01 |
| <input type="checkbox"/> Citations | 66 |
| <input type="checkbox"/> H index | 06 |
| <input type="checkbox"/> i10 index | 04 |

COURSES TAUGHT:

1. Refrigeration and Air conditioning
2. IC Engine
3. Power Plant Engineering
4. Heat and Mass Transfer
5. Fluid Mechanics
6. Applied Thermodynamics
7. Automobile Engineering
8. Fuel & Combustion
9. Basic Mechanical Engineering
10. Strength of Materials
11. Manufacturing Science-I
12. Manufacturing Science-II
13. Machine Design
14. Material Science
15. Six Sigma Methods, Approach and Applications
16. Unconventional Manufacturing Process
17. Basics of Automobile Technology
18. Automobiles Products & Services
19. E-commerce
20. Industrial Economics and Principles Managements
21. Human Values & Professional Ethics
22. Business Organization
23. Principles of Economics and Managements

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- DQAC Member
- Lab In-charge of Applied Thermodynamics

STUDENTS SUPERVISION/CO-SUPERVISION

- PhD: 01 (Ongoing)
- M.Tech: 02
- B.Tech: 04 groups

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- “Development of an artificial neural network for the prediction of relative viscosity of ethylene glycol based nanofluids”. SN Applied Sciences (2020) 2:1473 August 2020
- “Integrated Taguchi-GRA-PCA for optimizing the heat transfer performance of nanofluid in an automotive cooling system”. Grey Systems: Theory and Application July 2020

- “Multi-Response Optimization of Nanofluid-Based I. C. Engine Cooling System Using Fuzzy PIV Method”. *Processes* **2020**, 8, 30
- “Experimental study on heat transfer of an engine radiator with TiO₂/EG-water nano-coolant”. *SN Applied Sciences* (2021) 3:434 February 2021
- “Energy and Exergy analyses of active solar still integrated with evacuated flat plate collector for New Delhi”. *Groundwater for Sustainable Development* 19 (2022) : 100833

PAPER PUBLISHED IN NATIONAL /INTERNATIONAL CONFERENCES

- *Production of H₂ by Hydrothermal Gasification of Biomass*” International Journal of Environmental Research and Development, Vol3, No 7
- *Energy Saving through Parallel Distribution of Fluids in the Single and Double Effect Absorption Cycles*” 2nd National Conference on Advances in Heat Transfer and Fluid Dynamics, March 23-24, 2013 at AMU Aligarh UP India.

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- Performance Analysis Of Parallel Flow Single And Double Effect Absorption Cycles” International Journal of Innovative Research in Science, Engineering and Technology: Vol. 2, Issue 5
- Six Sigma; As Applied in Quality Improvement for Injection Moulding Process” International Review of Applied Engineering Research.
- Nano-structuring induced by shot peening and its effect on corrosion resistance of stainless steel” International Research Journal of Engineering and Technology (IRJET) Volume: 03 Issue: 05 | May-2016