BRIEF CV OF PROF. AHMAD FAIZAN SHERWANI

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Designation: Professor, Mechanical Engineering, F/O Engineering & Technology, Jamia Millia Islamia and Associate Professor Incharge, CCCP-Residential Coaching Academy, JMI

Qualifications:1. PH.D(Solar Energy),2013 from Jamia Millia Islamia, New Delhi

2. M.Tech (Thermal Sciences),2003 from Aligarh Muslim University,Aligarh

3. B.Tech (Mechanical Engineering), 2000 from Aligarh Muslim University,Aligarh

Teaching experience: 22 Years

Research & Development:

(i) Developed "Solar Energy lab in the Dept of Mechanical Engineering, JMI.
(ii) Sanction of DST sponsored project (worth Rs. 50 lakh) on Bulk Hetrojunction Hybrid solar cells based on perovskite photo-active layer.

Research Interest: Thermal Engineering, Renewable energy
Doctoral Theses Supervision: Awarded: 05, Pursuing: 01

M. Tech. Dissertation Supervision: 10
B. Tech. Project Supervision: – More than 15 (In the Area of Thermal Engineering).

Publications:
International Journals:
Published 30 Research Papers.

Recent Publications.

1. Annual assessment of solar air-drying system integrated with photovoltaic and phase change material for cost-effective and efficient productions
   P Rawat, AF Sherwani - Drying Technology, 2025

2. Optimizing the performance parameters of vacuum evaporation technology for management of anaerobic digestate in a waste water treatment plant using fuzzy MCDM method O Khan, S Mufazzal, ZA Khan, AF Sherwani, Z Yahya… - Desalination and Water Treatment, 2024

3. Optimization of single and double pass solar air heater-phase change material (SAH-PCM) system based on thickness to length ratio P Rawat, AF Sherwani - International Journal of Heat and Mass Transfer, 2024

4. A Taguchi-based hybrid multi-criteria decision-making approach for optimization of performance characteristics of diesel engine fuelled with blends of biodiesel-diesel and cerium oxide nano-additive S Khanam, O Khan, S Ahmad, AF Sherwani, ZA Khan… - Journal of Thermal Analysis and Calorimetry, 2024
5. Experimental investigation and multi-performance optimization of the leachate recirculation based sustainable landfills using Taguchi approach and an integrated MCDM method O Khan, S Mufazzal, AF Sherwani, ZA Khan, M Parvez… - Scientific Reports, 2023

6. A numerical study on the impact of fin length arrangement and material on the melting of PCM in a rectangular enclosure P Rawat, AF Sherwani - International Journal of Heat and Mass Transfer, 2023

7. Analysis of organic Rankine cycle integrated multi evaporator vapor-compression refrigeration (ORC-mVCR) system AF Sherwani - International Journal of Refrigeration, 2022

8. Parametric optimization of organic Rankine cycle using TOPSIS integrated with entropy weight method D Tiwari, AF Sherwani, M Muqeem, A Goyal - Energy Sources, Part A: Recovery, Utilization, and …, 2022

9. Optimization of cyclic parameters for ORC system using response surface methodology (RSM)
10. A Goyal, AF Sherwani, D Tiwari - Energy Sources, Part A: Recovery, Utilization, and …, 2021

11. Exergy, economic and environmental analysis of organic Rankine cycle based vapor compression refrigeration system AF Sherwani, D Tiwari - International Journal of Refrigeration, 2021

12. Thermodynamic analysis of Organic Rankine cycle driven by reversed absorber hybrid photovoltaic thermal compound parabolic concentrator system D Tiwari, AF Sherwani, D Atheaya, A Kumar, N Kumar - Renewable energy, 2020

13. Thermodynamic analysis of Organic Rankine Cycle driven by reversed absorber hybrid photovoltaic thermal compound parabolic concentrator system., 147; 2118-2127, 07/10/2019, Renewable energy.

14. Application of the Taguchi based entropy weighted TOPSIS method for optimization of diesel engine performance and emission parameters, vol. 26, no. 1, pp. 69-94, 2019, International Journal of Heavy Vehicle Systems (Inderscience).

15. Optimization of diesel engine input parameters running on Polanga biodiesel to improve performance and exhaust emission using MOORA technique with standard deviation, vol. 40, no. 22, pp. 2753-2770, 24/8/2018, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (Taylor & Francis)

16. Energy and exergy analysis of solar driven recuperated organic Rankine cycle using glazed reverse absorber conventional compound parabolic concentrator (GRACCPC) system. Solar Energy 2017; Elsevier.

17. Thermodynamic analysis of low-grade solar heat source-powered modified organic Rankine cycle using zeotropic mixture (Butane/R1234yf). International journal of ambient energy 2017 , Taylor and Francis.

18. Grey relational analysis coupled with principal component analysis for optimization of the cyclic parameters of a solar-driven organic Rankine cycle. Grey Systems: Theory and Application, 2017, Emerald.

19. Thermodynamic and multi-objective optimization of solar driven organic Rankine cycle using zeotropic mixtures. International journal of ambient energy, 2017,Taylor and Francis.

20. Thermo-economic and multi-objective optimization and comparisons of low grade solar heat source powered saturated and superheated organic Rankine cycle using butane/R1234ze.Renewable and sustainable energy, 2017,American Institute of Physics.

21. Application of the Taguchi based entropy weighted TOPSIS method for optimization of diesel engine performance and emission parameters, Int. J. Heavy Vehicle Systems,2017, Inderscience