Faculty Profile

Dr. Saravanan M P, M.E., Ph.D
Assistant Professor, Mechanical Engg

HIGHLIGHTS:

- Number of Journal Publications: 10
- H-Index: 2
- Project Funding Received: Nil
- Patents Published:4
- Patents Granted:0

PROFESSIONAL LINKS:

- Scopus ID: 57212544108
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=57212544108
- Google Scholar ID: https://scholar.google.com/citations?hl=en&authuser=1&user=CEzDsZQAAAAJ
- Anna University Faculty ID:
- AICTE Faculty ID:
- LinkedIn:

AREA OF SPECIALIZATION:

- Smart Materials and Structure
- Engineering Design
- Mechanical Engineering
- Material Science and Engineering

RESEARCH INTERESTED:

- Sensor and Actuation
- Smart Structure and System
- Electro Magnetic and Mechanical Analysis
- Vibration analysis and Control
- Energy harvesting and Smart System

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 12Years 6Months

- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

Journal Publications:

- **M.P.Saravanan,** et.al (2025), An Advanced Application of UAV–Drone Technologies in Precision Agriculture for Seed Dropping, Fertilizers and Pesticides Spraying and Field Monitoring Computer Vision in Smart Agriculture and Crop Management, 139-157, Wiley Online Library [Book Chapter]
- **M.P.Saravanan,** et.al (2025), Design and analysis of vehicle suspension A-arm by generative design method, Recent Innovations in Sciences and Humanities, 27, CRC Press [Book Chapter]
- **M.P.Saravanan,** et.al (2024), Experimental Investigation of Al8011 Reinforced with Zro2 Hybrid Metal Matrix Composite Based on Wear International Conference on Recent Advancements in Materials Science and Technology, 15-24, Springer
- **M.P.Saravanan,** et.al (2024), Investigation on friction-stir welding of SS340 steel using a tungsten carbide based stirring tool Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, SAGE Publications Sage UK: London, England
- **M.P.Saravanan,** et.al (2023), Tribological Behavior of Physical Vapor Deposition Coating for Punch and Dies: An Overview, International Journal of Vehicle Structures & Systems (IJVSS), 15(3)
- **M.P.Saravanan,** et.al (2021), "Characteristic Investigation of Macro Fiber Composite Structure using FE Model", Archives of metallurgy and materials, Vol. 66, Iss. 4, pp. 1059-1066 (Anna University Annexure I, Scopus Indexed, Web of Science)
- **M.P.Saravanan,** et.al (2020), Sliding Wear behavior of AlTiN PVD Coating on Titanium Alloy for Orthopedic Applications, International Journal of Production Engineering Research and Development, Vol. 10, Iss. 3, pp. 6199–6208
- **M.P.Saravanan,** et.al (2020), Modeling and Analysis of Dynamic Structure with Macro Fiber Composite for Energy harvesting, Materials Today Proceedings , Vol.33, Iss.7, Pp. 3481-3485
- **M.P.Saravanan,** et.al (2015), Review on Energy harvesting using Electro-Magneto-Elastic Structure, International Journal for Trends in Engineering & Technology, Vol.9, Iss.1, Pp.14-21
- **M.P.Saravanan,** et.al (2013) Characteristic and Experimental Investigation of TiN Micro Tubular Heater, Archives of metallurgy and materials, Vol.58, Iss.2, Pp. 641-645 (Anna University Annexure I, Scopus Indexed, Web of Science)

National Conferences:

1. Analysis of Excitation Performance on Macro Fiber Composites in AC & DC Voltage, National Conference on Recent Advances in Mechanical Sciences, Rajalakshmi Engineering College
2. Investigation on Non-Linear behavior of Macro Fiber Composite, Tamizhan College of Engineering and Technology
3. Characteristics and Experimental Investigation of TiN Micro Tubular Heater, Roever College of Engineering and Technology

International Conferences:

1. Tribological behavior of Physical Vapor Deposition (PVD) Coating process for Punch and Dies: An Overview, SRM Institute of Science and Technology

2. Performance Evaluation of Sensing and Actuating Structure of Macro Fiber Composite, Rohini College of Engineering and Technology
3. Influence of backing material in Ultrasonic Transducer Performance, Rohini College of Engineering and Technology
4. Mechanical behavior of Natural Fiber Reinforced Mudar/Epoxy Composite, Mahatma Gandhi University
5. Micro-Electro Mechanics Model for Macro Fiber Composite Material, Mohamed Sathak Engineering College

PATENTS PUBLISHED/GRANTED:

Smart Precision Seeder for Agriculture Applications, Design No: 405997-001, dated on 30/01/2024

ACHIEVEMENTS AND AWARDS:

- Editor of International Journal of Materials Science and Applications, SciencePG, Science Publishing Group.
- Reviewer of Electrical Engineering Journal, Springer Nature Publisher
- Reviewer of Material Science and Engineering A Journal, Elsevier B.V, Publisher

SPECIAL SESSIONS DELIVERED:

- A Session on Sustainable Simulation and Modeling of Composite Materials organized by Saveetha Engineering College
- A Workshop on Surface Modelling in CATIA organized by Roever Engineering College, Perambalur.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- Tribological behavior of Physical Vapor Deposition (PVD) Coating process for Punch and Dies: An Overview, SRM Institute of Science and Technology
- Performance Evaluation of Sensing and Actuating Structure of Macro Fiber Composite, Rohini College of Engineering and Technology
- Influence of backing material in Ultrasonic Transducer Performance, Rohini College of Engineering and Technology
- Investigation on Non-Linear behavior of Macro Fiber Composite, Tamizhan College of Engineering and Technology
- Mechanical behavior of Natural Fiber Reinforced Mudar/Epoxy Composite, Mahatma Gandhi University
- Micro-Electro Mechanics Model for Macro Fiber Composite Material, Mohamed Sathak Engineering College
- Characteristics and Experimental Investigation of TiN Micro Tubular Heater, Roever College of Engineering and Technology

PROFESSIONAL MEMBERSHIPS:

International Association of Engineers [IAEng] (Life Member)
Institute of Research Engineers and Doctors [IRED] (Life Member)
Institution of Engineers [IE] (Life Member)
Indian Society for Technical Education [ISTE] (Life Member)
MSME Technology Development Centre (PPDC) (Govt. of India), Agra (Member)