KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

NAMAKKAL – TRICHY MAIN ROAD, THOTTIAM, TRICHY

DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2025-2026

FACULTY PUBLICATIONS - International/National Journals

1. Subramanian, Mohankumar, Raju, Naveen Kumar, Rathanasamy, Rajasekar and Velu Kaliyannan, Gobinath "Tribological and Mechanical behavior of Al359 Composites reinforced with B4Cp, SiCp and flyash", Material Testing, Vol. 60, No. 7, pp. 1223—1231.
2. L.Selvarajan, Prakash B, Niranjan T., Madhava Reddy S., Singaravel B., and Periasamy K "A critical insight into the use of EDM for machining advanced ceramic composites – a review", Machining Science and Technology, 29 (5): 723–46.
3. A. K. Chaturvedi, T. Jagadeesha, Santosh Kumar Tamang, R. Thanigaivelan, and R. Periyasamy, "Optimization of Cutting Parameter in turning of Super duplex Stainless Steel-SDSS2507 with textured tools under MQL Conditions", Surface Review and Letters, (Published Online).
4. Arulpandian Palanisamy, Nagaraj Chelliah Machavallavan, Dhanasekar Ramalingam, Kumaravel Sundaram, "Microstructural and Mechanical Improvements in A356 Composites on Incorporating Polymer Derived Ceramics Through Ultrasonication at Semi-solid and Liquid State", Silicon, 17, 2715–2727.
5. V. S.Shaisundaram, Sengottaiyan, Saravanakumar, Raji Gunasekaran and S.Kumaravel, M.Chandrasekaran, Basumatary Sanjay, "Machine Learning Driven Energy Efficiency Enhancement and Emission Reduction in Diesel Engine Using pumpkin seed Bio Diesel Blends and CeO_2 Nano Particles", International Journal of Energy Research, (Published Online).

6. Nadanasabapathi Sivashankar, Kadhiresan Santhanam, Shikandar Prasad, Mamidala Jawahar, Rajasekaran Thanigaivelan, “Electrochemical Micromachining of Galvanized iron Sheets: process optimization and Performance Evaluation”, Journal of Electrochemical Science and Engineering, (Published Online).
7. S. Saravanan, Saravanakumar Sengottaiyan, Ra. Aravind , S. Krishnakumar , “Assessment of the Tribological Behavior of WAAM-Fabricated SS316L through Advanced Ensemble Machine Learning Predictions and RSM-Based Optimization”, Journal of Materials Engineering and Performance, (Published Online).
8. G. Mahendran, R. Ramadoss, C. Rajendran, G. Selvakumar, V. Jayaseelan , “Influence of Solution Treatment and Artificial Aging on the Strength of LM13 Reinforced with Titanium Diboride Metal Matrix Composite”, Journal of Materials Engineering and Performance, (Published Online).
9. Sivakumar Viswanathan, Saravanakumar Sengottaiyan, Muthukumar Veerappan, Shaisundaram Veerasamy Shamprasshaath,“Assessment of Mechanical Strength, Thermal Stability, and Moisture Resistance of AA6061-Alumina-Banana Fiber Epoxy Fiber Metal Laminates”, Fibers and Polymers, 26, 4497–4512 (2025).
10. Dhanapalan Lavanya, Dhavamani Chinnathambi, Venkatesan Subramanian, Ravikumar Natarajan., “Biosilica and Clove Oil-Modified Banana Fiber Epoxy Composites: Mechanical, Thermal, Wear, and Drilling Performance with Machine Learning and RSM Optimization”, Composite Interfaces, (Published Online).
11. Periyasamy Dhiravidamani, Duraisamy Jagadeesh, Prabagaran S, Srinivasan R, “Hemp-PEEK composites: surface treatment, processing, and performance”, International Polymer Processing, vol. 40, no. 5, 2025, pp. 517-524.
12. P Suresh, Kumaravel S, Saravanakumar Sengottaiyan, Muthukumar P, “Influence of friction stir processing passes on microstructure , mechanical and tribological performance of Al5083/FeCoCrCuTi high-entropy alloy surface composites”, Composite Interfaces, (Published Online).
13. N. Santhosh, S.M. Vinu Kumar, R. Sundar, V. Vadivelvivek, C. Dineshbabu, “Hybrid FED former-LSTM model for enhanced heave displacement prediction in offshore buoys”, Ocean Systems Engineering, Vol. 15, No.3, pages 271-295.

14. Arulpandian Palanisamy, Krishnaveni Anbalagan, Raja Palanivel, J. R. Vinod Kumaar, “Enhanced Microstructure and Mechanical Properties of In Situ Polymer-Derived Ceramic-Reinforced A356 Aluminum Composites Through Cooling Slope Casting”, International Journal of Metalcasting, (Published Online).