## NANDHA ENGINEERING COLLEGE (AUTONOMOUS), ERODE – 52 DEPARTMENT OF MECHANICAL ENGINEERING

## ACADEMIC YEAR 2021-2022 JOURNAL PUBLICATIONS

- 1. **B. Ashok Kumar**, I. Dinaharan, N. Murugan, (2021) "Microstructural, Mechanical and Wear Properties of Friction Stir Welded AA6061/AlNp Composite Joints," Journal of Materials Engineering and Performance, https://doi.org/10.1007/s11665-021-06181-6, pp. [1-16]
- 2. **Dr. B. Ashok Kumar**, N. Viswanathan, V. Vimala, R. Saravanan (2021) "Mechanical and metallurgical characterization of AA7075 matrix composite reinforced with Zirconium Boride (ZrB2) synthesized by stir casting route", International Journal of Mechanical Engineering, ISSN: 0974-5823, Vol. 6 No. 3, pp. [1173-1178]
- 3. **B. Ashok Kumar**, M. Muthu Krishnan, A. Felix Sahayaraj, Mohamad Reda, A. Refaal, G. Yuvaraj, D. Madhesh, Haiter Lenin Allasi (2022) "Characterization of the Aluminium Matrix Composite Reinforced with Silicon Nitride (AA6061/Si<sub>3</sub>N<sub>4</sub>) Synthesized by the Stir Casting Route", Advances in Materials Science and Engineering, Volume 2022, Article ID 8761865, https://doi.org/10.1155/2022/8761865, pp. [1-8]
- 4. S. Yuvaraj, A. P. Senthil Kumar, **Dr. M. Muthukumar**, K. Sadesh, S. Janaki, (2021) "Certain studies on influence of nano catalysts CO<sub>3</sub>O<sub>4</sub>, SiO<sub>2</sub> blended with CME-diesel in combustion", Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2021.10.469, pp. [1-7]

- 5. **Dr M Muthukumar,** Karthikeyan Palaniswamy, Thiagarajan Velumani, Kim Byung Chul, Rajavel Velayutham, Praveenkumar Shivakumar, Senthilarasu Sundaram (2021) "Performance Studies of Proton Exchange Membrane Fuel Cells with Different Flow Field Designs Review", The Chemical Record, DOI: 10.1002/tcr.202000138, pp. [1–53]
- 6. **Dr M Muthukumar,** Magesh Kannan Vijayakrishnan, Karthikeyan Palaniswamy, Karthikeyan Manoharan, Thanarajan Kumaresan, Jyothis Arumughan (2021) "Experimental investigation on serpentine, parallel and novel zig-zag flow fields for effective water removal and enhanced performance on 25 cm<sup>2</sup> PEMFC", Journal of Ceramic Processing Research. https://doi.org/10.36410/jcpr.2021.22.2.131, Vol. 22, No. 2, pp. [131-142]
- 7. Thokchom Subhaschandra Singh, Upendra Rajak, Abhishek Dasore, **Dr. M. Muthukumar,** Tikendra Nath Verma (2021),"Performance and ecological parameters of a diesel engine fueled with diesel and plastic pyrolyzed oil (PPO) at variable working parameters", Environmental Technology & Innovation, ISSN: 2352-1864, https://doi.org/10.1016/j.eti.2021.101491, pp. [1-16]
- 8. **Dr. N. Senniangiri, S. Magibalan, V. Chandramohan**, M. Thangamani, (2021) "Characteristics of Graphenenio/Coconut Oil Hybrid Nanofluid", International Journal of Mechanical Engineering, ISSN: 0974-5823, Vol. 6 No. 3, pp. [1204-1207]
- 9. Praveenkumar. S, Baskar.s, **Muthukumar. M** (2022) "Intensification of proton conductivity through polymer electrolytic membrane fuel cell", Journal of the Indian Chemical Society, ISSN: 0019-4522, pp. [1-22]