



SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

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Department of Mechanical Engineering

(Accredited by NBA, New Delhi and NAAC with 'A++' Grade)

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Faculty Journal Details 2021-2022

1. **A Senthil Kumar**, S.P. Jani, Adam Khan. M, A. Sujin Jose, “Design and optimization of unit production cost for AWJ process on machining hybrid natural fibre composite material”, International Journal of Lightweight Materials and Manufacture, Vol. 4, No. 7, pp:491-497, June 2021 <https://doi.org/10.1016/j.ijlmm.2021.07.002> Impact Factor 5.58.
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3. **J Vairamuthu**, **AS Kumar**, **GD Sivakumar**, SN Navroz, **C Kailasanathan**, Mechanical properties of casting titanium alloy matrix composites reinforced by WC and TiB₂ ceramic particulates, Materials Today: Proceedings 59, 1503-1507 <https://doi.org/10.1016/j.matpr.2022.01.098> , Impact Factor 0.1.
4. **J Vairamuthu**, **AS Kumar**, **GD Sivakumar**, SK Rajeshwaran, R Subbiah, Preparation and characterization of AZ63A/Boron Nitride composites using hybrid mechanical and ultrasonic assisted stir casting, Materials Today: Proceedings 59, 1513-1519 <https://doi.org/10.1016/j.matpr.2022.01.403> , Impact Factor 0.1.
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6. SP Jani, **AS Kumar**, MA Khan, S Sajith, A Saravanan , Influence of natural filler on mechanical properties of hemp/kevlar hybrid green composite and analysis of change in material behavior using acoustic emission, Journal of Natural Fibers 18 (11), 1580-1591 <https://doi.org/10.1080/15440478.2019.1692321> , Impact Factor 3.5.
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8. SP Jani, **AS Kumar**, B Anushraj, PM Mashinini, S Uppalapati, Development and Optimization Study of Poly-Lactic Acid Blended Carbon Particles by Fused Deposition Modelling Method, Innovations in Additive Manufacturing, 121-138 https://doi.org/10.1007/978-3-030-89401-6_6 , Impact Factor 10.8.

9. **Perumal.A**, Azhagurajan.A, Suresh Kumar.S, Prithivirajan.R, Baskaran.S, **Rajkumar.P.R**, **Kailasanathan.C**, **Venkatesan.G**, ‘Influence of Optimization Techniques on Wire Electrical Discharge Machining of Ti–6Al–2Sn–4Zr–2Mo Alloy using Modeling Approach’, Journal of Inorganic and Organometallic Polymers and Materials, <https://doi.org/10.1007/s10904-021-01953-y>, Impact Factor 3.9.
10. Ramesh Kannan.C, Manivannan.S, Stalin.B, **Kailasanathan.C**, ‘Metallographic Characterization of SiC-Ni-Ti Layer Reinforced on Austenitic Stainless Steel (AISI 316L) by Two-step Laser Fabrication’, Research Square, <https://doi.org/10.21203/rs.3.rs-524562/v1>, Impact Factor 0.15.
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14. ST Saravanan, **C Kailasanathan**, E Natarajan, A Ramasamy Crystallinity change and reduced warpages on thin walled parts-the effect of nano fumed silica on polyacetal, Silicon 13, 4611-4622 <https://doi.org/10.1007/s12633-020-00796-5>, Impact Factor 2.8.
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Reinforced Vinyl Ester Polymeric Composites, Journal of Polymers and the Environment, 1-13 DOI:[10.1007/s10924-021-02343-8](https://doi.org/10.1007/s10924-021-02343-8), Impact Factor 4.7.

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20. SS Kumar, **V Vignesh**. Effect of titanium oxide, alumina oxide and silicon carbide on mechanical properties and thermal properties of reinforced nylon composites for industrial applications, International Journal of Computer Aided Engineering and Technology 16 <https://doi.org/10.1504/IJCAET.2022.119540>, Impact Factor 2.8.
21. **Kailasanathan C** ‘ Tribological Analysis of Jute/Coir Polyester Composites Filled with Eggshell Powder (ESP) or Nanoclay (NC) Using Grey Rational Method’ Fibers, Volume 10, Issue 7, July 2022, Article number 60 <https://doi.org/10.3390/fib10070060>, Impact Factor 4.0.
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25. **A.Perumal**, “Physical and mechanical properties of various metal matrix composites: A review”, Materials Today: Proceedings, July 2021. <https://doi.org/10.1016/j.matpr.2021.07.354>, Impact Factor 0.1.
26. Pritima.D, Stalin.B, **Vairamuthu.J**, Mallesham.P, Srinivasa Rao.M, Marichamy.S, ‘Analysis of Parameters on Bend Force in Nickel-Coated Mild Steel Sheets Through Contour Plot’, Advances in Industrial Automation and Smart Manufacturing, https://doi.org/10.1007/978-981-15-4739-3_55, Impact Factor 1.15.
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