



# SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

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**Department of Mechanical Engineering**

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(Approved Research Centre by Anna University, Chennai)



## Faculty Journal Details 2022-2023

1. K. Thavasilingam, **A. Senthil Kumar**, M. Adam Khan, **S. Devanand** & K. Giridharan ‘ Effect of fumed silica in rice bran wax-epoxy coating on aluminum substrate: mechanical, thermal, and water absorption properties, Biomass Conversion and Biorefinery’ Volume 13, pages 4229–4240, (2023), Impact Factor 3.5. <https://doi.org/10.1007/s13399-021-01889-w>
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3. **Kailasanathan, C.**, ‘Strength characterization of caryota urens fibre and aluminium 2024-T3 foil multi-stacking sequenced SiC-toughened epoxy structural composite’ Biomass Conversion and Biorefinery Volume 12, Issue 9, September 2022, Pages 4009-4019, <https://doi.org/10.1007/s13399-020-00831-w>, Impact Factor 3.5.
4. **C. Kailasanathan**, M. Gopi Krishna B. Nagaraja Ganesh Investigation of Mechanical and Thermal Conductivity Properties of Sansevieria Roxburghiana Leaf Fibers Reinforced Composites: Effect of Fiber Loading Journal of Natural Fibers Volume 19, Jul 2022 - Issue 16 DOI:10.1080/15440478.2022.2095547, Impact Factor 3.5.
5. **Devanand, S., Senthil Kumar, A., Selvabharathi, R.** ‘ Influence of Severe Double-Shot Peening and Plasma Spray Arc TiAlCr /AlCrSi Coating on Tribological Behaviour of Pure Aluminium Alloy’ Journal of Inorganic and Organometallic Polymers and Materials Volume 32, Issue 12 December 2022, Pages 4729-4742 <https://doi.org/10.1007/s10904-022-02429-3>, Impact Factor 3.9.
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8. **TP Balaji, A Senthilkumar, A Saravanakumaar, B Muthu Chozha Rajan** , Extraction and Characterization of Natural Cellulosic Erythrina variegata Fiber for Biocomposites, Journal of Natural Fibers 19 (16), 12676-12687 <https://doi.org/10.1080/15440478.2022.2073502>, Impact Factor 3.5.
9. **A. Perumal , C. Kailasanathan , Vincent Herald Wilson , T. Sampath Kumar , B. Stalin , P.R. Rajkumar** ‘ Machinability of Titanium alloy 6242 by AWJM through Taguchi method Materials Today: Proceedings Volume 81, Part 2, 2023, Pages 606-611 <https://doi.org/10.1016/j.matpr.2021.04.067>, Impact Factor 0.1.

10. S. Ravi , **K. Arun Balasubramanian** , **G. Nagaraj** , **C. Kailasanathan** ‘Investigations on thermo-physical properties of ethylene glycol-based hybrid Al<sub>2</sub>O<sub>3</sub> and ZrO<sub>2</sub> nanofluid as coolant’ Materials Today: Proceedings 30 July 2023 <https://doi.org/10.1016/j.matpr.2023.07.354>, Impact Factor 0.1.
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12. A. S. Sathishkumar, **K. Arun Balasubramanian**& T. Ramkumar ‘ Investigations on thermal properties of MWCNT-NBN Paraffin Wax phase change material for thermal storage applications’ Jan 2023 Journal of Thermal Analysis and Calorimetry Volume 148, pages 3263–3271, <https://doi.org/10.1007/s10973-022-11931-2>, Impact Factor 3.0.
13. **A Perumal, PR Rajkumar, G Venkatesan, S Paramasamy, T Gangadharan** ‘ Multi-response optimization of machining parameters of Ti-6Al-2Sn-4Zr-2Mo alloy using EDM process through grey relational analysis’ Engineering Research Express, April 2023 Volume 5, Number 2 **DOI 10.1088/2631-8695/acc6b4** , Impact Factor 1.5.
14. **Perumal, A., Rajkumar, P.R.**, Potential Utilization and Characterization of Epoxy Based Biomaterials under Alkaline Environment’ AIP Conference Proceedings Volume 2516, 30 November 2022, Article number 050001 DOI:[10.1063/5.0108535](https://doi.org/10.1063/5.0108535), Impact Factor 0.15
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18. **Vignesh, V.**, ‘ Effect of green hybrid fillers loading on mechanical and thermal properties of vinyl ester composites’ Polymer Composites ,Volume 43, Issue 11, November 2022, Pages 7928-7939 <https://doi.org/10.1002/pc.26925>, Impact Factor 5.23.
19. **Vignesh, V.**, Extraction and characterization of natural lignocellulosic fibres from Typha angustata grass’ international Journal of Biological Macromolecules Volume 222, 1 December 2022, Pages 1840-1851 DOI: [10.1109/ICIDCA56705.2023.10099821](https://doi.org/10.1109/ICIDCA56705.2023.10099821), Impact Factor 7.7.
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24. V Mohanavel, S Suresh Kumar, **J Vairamuthu**, P Ganeshan, Influence of stacking sequence and fiber content on the mechanical properties of natural and synthetic fibers reinforced penta-layered hybrid composites, Journal of Natural Fibers 19 (13), 5258-5270 DOI: [10.1080/15440478.2021.1875368](https://doi.org/10.1080/15440478.2021.1875368), Impact Factor 3.5.
25. **A. Senthil Kumar** ‘Partial correlation of optical, electrical and magnetic properties of nanosized Zn–Cr–La ferrite particles synthesized by sonochemical method’ Materials Today Communications, Volume 33, December 2022, 104500 DOI: [10.1016/j.mtcomm.2022.104500](https://doi.org/10.1016/j.mtcomm.2022.104500), Impact Factor 3.7.
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