



NAME : Dr. SATHISH KUMAR R

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SPECIALIZATION:

- Alternative and Renewable Fuels for IC Engines
- Mitigation of NO_x and CO₂ emission from Biodiesel Fuelled Engines
- Natural Fiber Reinforced Composite Materials – Fiber and Matrix Modifications Effects
- Design of Experiments

EDUCATION:

- B.E. (Mechanical Engineering) – University of Madras, Chennai – 2003
- M.E. (Computer Aided Design) – Anna University, Chennai – 2006
- Ph.D. (Mechanical Engineering) – B S Abdur Rahman Crescent Institute of Science and Technology, Chennai – 2015

PUBLICATIONS:

2022-2023 (Journal Articles/Conference proceedings)

1. S. Vijayan, Ravishankar Sathyamurthy, Esmail M.A. Mokheimer, **Sathish Kumar R.** “Performance enhancement and emission reduction of CRDI diesel engine fueled using Manilkara Zapota biodiesel blend with TiO₂ nanoadditive” Fuel Processing Technology, 248 (2023) 107842.
2. **Sathish Kumar R.**, Natarajan P., Mohanraj M., Arockia Julias A. “Experimental Investigation on Mechanical and Tribological Characteristics of Snake Grass/Sisal Fiber Reinforced Hybrid Composites” International Polymer Processing, <https://doi.org/10.1515/ipp-2022-4301>.
3. Sundar, S.P., Palanimuthu, V., Sathyamurthy, R., **Sathish Kumar, R.**, Vasanthaseelan, S., Chamkha, A. “Feasibility study of neat plastic oil with TiO₂ nanoadditive as an alternative fuel in internal combustion engine” Journal of Thermal Analysis and Calorimetry, 2022, 147(3), pp. 2567–2578
4. **Sathish Kumar, R.**, Mohanraj, M., Natarajan, P., Julias, A.A., Ravishankar, S. “Experimental Study on the Drilling Parameter Analysis of Banana Fiber Reinforced Vajram Mixed Phenolic Resin Composite Laminates” Journal of Natural Fibers, 2022, 19(15), pp. 9827–9844
5. **Sathish Kumar, R.**, Manoharan, M., Ganesan, S., Natarajan, P., Rajasekaran, P. “Mechanical and Morphological Characteristics Study of Chemically Treated Banana Fiber Reinforced Phenolic Resin Composite with Vajram Resin” Journal of Natural Fibers, 2022, 19(12), pp. 4731–4746
6. **Sathish Kumar, R.**, Muralidharan, N., Sathyamurthy, R. “Optimization of Alkali Treatment Process Parameters for Kenaf Fiber: Experiments Design” Journal of Natural Fibers, 2022, 19(11), pp. 4276–4285
7. **Sathish Kumar, R.**, Durgam Muralidharan, N. “Mechanical Characteristics Study of Chemically Modified Kenaf Fiber Reinforced Epoxy Composites” Journal of Natural Fibers, 2022, 19(7), pp. 2457–2467

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Google Scholar ID : https://scholar.google.com/citations?user=z_dYiUAAAAJ&hl=en

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