

Faculty Profile



Dr. R. Sathish Kumar

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Total Experience (in years): 16

Research Area: Alternative Fuels for IC Engines, Emission and Pollution Control, Natural Fiber Composite Materials for Automobile Applications, Renewable and Sustainable Energy

Recent Publications:

R. Sathish Kumar and K. Sureshkumar (2021) "Fatty acid ethyl ester from Manilkara zapota seed oil: A completely renewable biofuel for sustainable development" Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-021-15078-9>.

Ravishankar Sathyamurthy, Padmanaba Sundar S, Vijayabalan P, Hemalatha D, **Sathish Kumar R**, Bharathwaaj R, Vasanthaseelan S, and Ali Chamkha, (2021) "Feasibility study of neat plastic oil blended with TiO₂ as alternative fuel in IC engine" Journal of Thermal Analysis and Calorimetry. <https://doi.org/10.1007/s10973-021-10657-x>.

R. Sathish Kumar, M. Mohanraj, R. Ganesan and R. Rajasekar, (2021) "Mechanical and Morphological Characteristics Study of Chemically Treated Banana Fiber Reinforced Phenolic Resin Composite with Vajram Resin" Journal of Natural Fibers. <https://doi.org/10.1080/15440478.2020.1870622>.

R. Sathish Kumar, Nivedhitha Muralidharan, and Ravishankar Sathyamurthy (2020) "Optimization of Alkali Treatment Process Parameters for Kenaf Fiber: Experiments Design" Journal of Natural Fibers. <https://doi.org/10.1080/15440478.2020.1856276>.

R. Sathish Kumar, S. Sivakumar, A. Joushua, G. Deenadayalan, R. Vishnuvardhan, (2020) "Production of Bio-fuel from Martynia annua L. Seeds Using Slow Pyrolysis Reactor and Its Effects on Diesel Engine Performance and Emission Characteristics" Energy. <https://doi.org/10.1016/j.energy.2020.119327>.

R. Sathish Kumar and D.M. Nivedhitha (2020) "Mechanical Characteristics Study of Chemically Modified Kenaf Fiber Reinforced Epoxy Composites" Journal of Natural Fibers. <https://doi.org/10.1080/15440478.2020.1818350>.

Joshua, **R. Sathish Kumar**, S. Sivakumar, G. Deenadayalan, R. Vishnuvardhan (2020) "An insight on VMD for diagnosing wind turbine blade faults using C4.5 as feature selection and discriminating through multilayer perceptron" Alexandria Engineering Journal, <https://doi.org/10.1016/j.aej.2020.06.041>.

R. Sathish Kumar (2019) "Data set on optimization of ethyl ester production from sapota seed oil" Data in Brief 25:104388.

R. Sathish Kumar, A. Krupa Vara Prasad (2019) "Environment friendly butyl ester biodiesel production from mahua oil: optimization and characterization" SN Applied Sciences 1:872.

R. Sathish Kumar, K. Sureshkumar (2019) "Data set of multi-objective optimization of diesel engine parameters" Data in Brief 25:104184.

R. Sathish Kumar, Sanad Thurakkal Puthan Purayil (2019) "Optimization of Ethyl Ester Production from Arachis Hypogaea Oil" Energy Reports 5:658-665.