

Faculty Profile



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Total Experience (in years): 23
Research Area: Alternative Fuels for IC Engines.

Recent Publications:

1. **Nadanakumar, V.**, Hoang, A.T., Solomon, J.M., EL-Seesy, A.I., Nguyen, X.P. Smart control strategy for effective hydrocarbon and carbon monoxide emission reduction on a conventional diesel engine using the pooled impact of pre-and post-combustion techniques. *Journal of Cleaner Production*, 2021, 306, 127310
2. Subbian, V., Christu Paul, R., Sathish Kumar, R., **Nadanakumar, V.**, Optimization of Solar Tunnel Dryer for Four Different Edible Products Using Response Surface Methodology., *Lecture Notes in Mechanical Engineering*, 2021, pp. 95–118
3. Subramaniam , K., Natarajan, A., **V.Nadanakumar.**, Muthiya, S., Optimization of Wire Cut EDM Process Parameters of Al/SiO₂ Composites Using Taguchi Method, *SAE Technical Paper 2020-28-0426*, 2020.
4. Sathyamurthy, R., Bhaskar, K., Solomon, J.M., Anaimuthu, S., **Nadanakumar, V**, A Review on PEM Fuel Cells Used for Automotive Applications, Models and Hydrogen Storage for Hybrid Electric Fuel Cell Vehicle *SAE Technical Papers*, 2020, (2020)
5. **Nadanakumar, V.**, Christupaul, R., Sathyamurthy, R., Sathish Kumar, R. Experimental Study on the Combustion, Performance and Emission Characteristics of a Diesel Engine Operated with the Blends of Waste Chicken Oil Biodiesel and Diesel. *Lecture Notes in Mechanical Engineering*, 2021, pp. 143–154
6. **Nadanakumar, V.**, Jenoris Muthiya, S., Prudhvi, T., Sathyamurthy, R., Dharmaraj, V. Experimental investigation to control HC, CO & NO_x emissions from diesel engines using diesel oxidation catalyst. *Materials Today: Proceedings*, 2020, 43, pp. 434–440
7. Subramaniam, M., Solomon, J.M., **Nadanakumar, V.**, Anaimuthu, S., Sathyamurthy, R. Experimental investigation on performance, combustion and emission characteristics of DI diesel engine using algae as a biodiesel, *Energy Reports*, 2020, 6, pp. 1382–1392
8. Joshua, S. Jenoris Muthiya, V.A. Shridhar, **V.Nadanakumar**, V.Beslin Geo, “ Wastage Cost Analysis of Fillet Welding on Boiler”, *Journal of Advanced Research in Dynamical and Control Systems*, 2020.
9. Sivamurugan, P, **V.Nadanakumar**, and Sajin Justin Abhram Baby. “ Performance pattern study on compression ignition engine running with biodiesel and tert-butanol blends”, *International Journal of Ambient Energy*, 2020.

10. Paul. R.C, Joseph.R, **NadanaKumar.V**, Booma Devi. P, Manigandan. S, “Experimental analysis of hybrid metal matrix composite reinforced with Al₂O₃ and graphite”, International Journal of Ambient Energy, 2019.
11. Subbian.V, **Nadanakumar.V**, Christupaul.R, Murugavel.K.K, “ Mathematical and experimental analysis of solar tunnel dryer for drying beef as a biological product”, International Journal of Mechanical and Production Engineering Research and Development, 2019, Vol. 9 (4).
12. **V.Nadanakumar**, V.Sugenth, N.Alagumurthi, “Experimental Study on the Influence of Engine Parameters on the Performance and Emission Characteristics of Diesel Engine using Fish Oil Bio-Diesel as Fuel “, International Journal of Pure and Applied Mathematics, 2018, vol 118(24).
13. **V. Nadanakumar**, A.A. Arivalagar, N. Alagumurthi , “ Production and Analysis of Silkworm Methyl Ester as an Alternative fuel for DI Diesel Engine” , International Journal of Pure and Applied Mathematics, 2018, vol 118(22).
14. **V. Nadanakumar**, A.A. Arivalagar, N. Alagumurthi, G. Bhargavi, S. Kirubanandan, S. Renganathan, “ Methyl Ester of Silkworm Oil: Preparation/Transesterification, Properties and Analysis”, International Journal of Chemical and Molecular Engineering ,Vol. 3(2)
15. **V.Nadanakumar**, A.A.Arivalagar, N.Alagumurthi, Studies on Production and Optimization of Silkworm Biodiesel, Journal of Chemical and Pharmaceutical Sciences, Vol 9 (4) : pages 3063 – 3069, 2016