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PRINCIPAL RESEARCH OF INTEREST

- Mechanical
- IC Engines

Publications:

1. **Dr. V. Thanigaivelan**, R Lavanya, B Prabhakaran, J Renuraman, Optimized Social media mining through systematic analysis, International Journal of Future Generation Communication and Networking, vol 13. No. 3, ISSN: 2233-7857 (**indexed in WOS**).
2. **Dr. V. Thanigaivelan**, J. Silkson John, M. Krishna, S. Ganesh, B Prabhakaran, Design And Evaluation Of Cardamom Plucking Machine, International Journal of Future Generation Communication and Networking, vol 13. No. 3, ISSN: 2233-7857 (**indexed in WOS**).
3. R Lavanya, **Dr. V. Thanigaivelan**, S. Ganesh, M. Krishna, J. Silkson John, Cost Effective Sign Language Translator Using Raspberry Pi With Iot, International Journal of Future Generation Communication and Networking, vol 13. No. 3, ISSN: 2233-7857 (**indexed in WOS**),
4. Dr. M. Loganathan, **Dr. V. Thanigaivelan**, V.M. Madhavan, A. Anbarasu, A. Velmurugan, The synergetic effect between hydrogen addition and EGR on cashew nut shell liquid biofuel-diesel operated engine, Fuel, vol 266. **Elsevier**. ISSN: 0016-2361 (**indexed in SCIE Impact factor 6**).
5. Dr. M. Loganathan, V.M. Madhavan, Arun Balasubramanian, **Dr. V. Thanigaivelan**, M Vikneshwaran, A Anbarasu, Investigation on the effect of diethyl ether with hydrogen enriched cashew nut shell (CNS) biodiesel in direct injection(DI) diesel engine, Fuel, vol 266. **Elsevier**. ISSN: 0016-2361 (**indexed in SCIE Impact factor 6**).
6. Lavanya R., **Dr. Thanigaivelan V.** (2020) Automated Investigation of Power Structures Annoyance Data with Smart Grid Big Data Perception. In: Karrupusamy P., Chen J., Shi Y. (eds) Sustainable Communication Networks and Application. ICSCN 2019. Lecture Notes on Data Engineering and Communications Technologies, vol 39. **Springer**, Cham. ISSN: 2367-4512.
7. **V. Thanigaivelan** and Dr. M. Loganathan, "Effect of Ethanol Addition on Performance and Emission of CNSL Biodiesel- Hydrogen Operated Di Dual Fuel Engine", published

in International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Number 1 pp. 1209 - 1220 (2019) ISSN: 9766340 (**indexed in scopus Impact factor 2.31**).

8. **V. Thanigaivelan** and Dr. M. Loganathan, "Performance and Emission Characteristics of Dual Fuel DI Diesel Engine using Cashew Nut Shell BioDiesel and Hydrogen as Fuel", published in International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Number 1 pp. 847-857(2019).ISSN: 9766340(**indexed in scopus Impact factor 2.31**).
9. **V. Thanigaivelan** and Dr. M. Loganathan, "Investigational Analysis of Performance Characteristics and Emission of Cashew Nut Shell Biodiesel on DI Diesel Engine", published in International Journal of Advanced Research in Engineering and Technology, Volume 10, Number 1 pp. 45-54 (2019). ISSN: 0976-6480 (**indexed in scopus**).
10. R. Lavanya and **V. Thanigaivelan**, "Big Data Analysis Applied for Short Term Solar Irradiance Forecasting" in International Conference on Advanced Trends in Computer Science & Information Technology, published in Indian Journal of Public Health Research & Development, Volume 10, No. 5, 851-856. 2019. ISSN: 0976-5506 (**indexed in scopus SNIP 0.071**).
11. **V Thanigaivelan**, G Balaji, M Loganathan and C G Saravanan, "Recital and emanation individuality of cashew nut shell with methanol blends", published in IOP Conf. Series: Materials Science and Engineering, 402 (2018) 012108 ISSN: 1757-8981 (**indexed in scopus SNIP 0.531**).
12. **V Thanigaivelan**, K C Udaiyakumar, G Balaji and S D Kumar, "Thermal effect of drain gas recirculation arrangement combined with intercooler for two wheelers", published in IOP Conf. Series: Materials Science and Engineering, 402 (2018) 012112. ISSN: 1757-8981 (**indexed in scopus SNIP 0.531**).
13. M. Sivashankar, G Balaji, R K Bharathraj, **V Thanigaivelan**, "Phenomenon of brake specific fuel consumption and volumetric efficiency in CI engine by modified intake runner length", published in IOP Conf. Series: Materials Science and Engineering, 402 (2018) 012112. ISSN: 1757-8981 (**indexed in scopus SNIP 0.531**).
14. **V. Thanigaivelan**, M. Loganathan, and C.G. Saravanan "Experimental Investigation Combustion Characteristics and Emission of Cashew nut Shell Biodiesel on DI Diesel Engine", published in Journal of Emerging Technologies and Innovative Research, Volume 6, Number 1 pp. 879-891(2018).
15. R. Lavanya and **V. Thanigaivelan**, "Cyber secured surveillance Next-Generation Unmanned Ground Vehicle through Internet of Things", published in International Journal of Pure and Applied Mathematics, Volume 120, Number 6 pp. 6879-6891(2018). ISSN: 1311-8080 (**indexed in scopus SNIP 0.48**).

16. **V. Thanigaivelan**, M. Loganathan and C.G. Saravanan, 'Pursuance Assessment and Discharge Characteristics Studies of Compression Ignition Diesel Engine by using Cashew Nut Shell Oil as Bio-Diesel Blends', International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 13 (2017) pp. 4009-4014. ISSN: 0973-4562 **(indexed in scopus SNIP 0.354)**.
17. **V. Thanigaivelan**, M. Loganathan and C.G. Saravanan, 'Recital Exploration of Enclosure of Hydrogen to Compression Ignition Diesel Engine with Biodiesel Blends', Journal of Engineering and Applied Sciences (**Medwell Publishers**), 12(special issue 7), 2017; pp: 8111-8116. ISSN: 1818-7803 (**SNIP 0.422**).
18. **V. Thanigaivelan** & Dr. M. Loganathan, "Performance analysis of addition of hydrogen to compression ignition diesel engine with bio diesel blends" in **IEEE Xplore**, 978-1-5090-4856-4, 1123 - 1128. ISSN: 978-1-5090-4856-4 [10.1109/ICONSTEM40713.2017](https://doi.org/10.1109/ICONSTEM40713.2017).
19. **V. Thanigaivelan**, M. Loganathan and C.G. Saravanan, 'Performance Investigation of Inclusion of Hydrogen to Compression Ignition Diesel Engine with Bio Diesel Mingles', Int. J. Pharm. Sci. Rev. Res., 44(2), 2017; Article No. 07, pp: 32-37. ISSN: 0976-044X (**SNIP 0.421**).