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SPECIALIZATION:

- Materials
- Manufacturing
- Alternate fuels, Nanofluid/ Nanoparticles
- Smart Materils

EDUCATION:

- D.M.E - Mechanical Engineering ,PSB Polytechnic college,Thaiyur,2006
- B.E -Mechanical Engineering, KCG College of Technology, Karapakkam, chennai, 2009
- M.E -Computer Aided Design, Hindustan University, Chennai, 2011
- Ph.D- Engineering and Technology, Hindustan Institute of Technology & Science, Chennai, 2022

PUBLICATIONS:

2022-2023 (Journal Articles/Conference proceedings)

Raja, Selvakumar, Jaikumar Mayakrishnan, Sasikumar Nandagopal, and Sangeethkumar Elumalai. "Effect of compression ratio on the performance, emission, and combustion characteristics of CI engine using waste cooking oil and its emulsion as fuel." In *Advances in Materials Research: Select Proceedings of ICAMR 2019*, pp. 701-711. Springer Singapore, 2021.

Mayakrishnan, Jaikumar, Selvakumar Raja, Senthil Kumar Masimalai, Vijayabalan Palanimuthu, Sasikumar Nandagopal, Sangeethkumar Elumalai, and Ramanathan Velmurugan. *Effects on Performance, Emission and Combustion Characteristics of Dual Fuel Mode CI Engine Operated with Waste Cooking Oil-Ethanol as Fuel*. No. 2020-28-0433. SAE Technical Paper, 2020.

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Ramakrishnan, Bharadwaj, Sangeethkumar Elumalai, Jaikumar Mayakrishnan, Induja Saravanan, and S. Jenoris Muthiya. *Investigation on tribological performance of NanoZnO and mixed oxide of Cu-Zn as additives in engine oil*. No. 2020-01-1095. SAE Technical Paper, 2020.

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Elumalai, Sangeethkumar, Jaikumar Mayakrishnan, Sasikumar Nandagopal, Selvakumar Raja, and Sudip Mukherjee. *Thermal Analysis and Experimental Investigations on the Effect of Thermal Barrier Coating on the Behavior of a Compression Ignition Engine Operated with Methyl Esters of Waste Cooking Oil*. No. 2018-01-0663. SAE Technical Paper, 2018.

Ramaswamy, Nakandhrakumar, Sangeethkumar Elumalai, Swapnanil Goswami, Selvakumar Raja, Ramanathan Velmurugan, Vutti Venkata Goutham, and M. Ramakrishnan. *Design of Blue Tooth Controlled Robotic Arm and Development through Fused Deposition Modelling process*. No. 2022-28-0565. SAE Technical Paper, 2022.

Mayakrishnan, Jaikumar, Ramanathan Velmurugan, Induja SARAVANAN, Sasikumar Nandagopal, Sangeethkumar Elumalai, Selvakumar Raja, and Karma Bhutia. *Effect of Hybrid Nano additives on Performance and Emission Characteristics of a Diesel Engine Fueled with Waste Cooking Oil Biodiesel*. No. 2020-28-0521. SAE Technical Paper, 2020.

Elumalai, S., Mayakrishnan, J., Nandagopal, S., Raja, S., & Velmurugan, R. (2019). *Experimental Study on Combined Effect of Yttria Stabilized Zirconia Coated Combustion Chamber Components and Emulsification Approach on the Behaviour of a Compression Ignition Engine Fuelled with Waste Cooking Oil Methyl Esters* (No. 2019-28-0164). SAE Technical Paper.

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https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=sangeethkumar+elumalai&oq=sangeethkumar+

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Sample Profile Pictures: