Faculty Profile

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Research Area: Renewable Energy, Automotive Safety, Waste Recycling, Electric Vehicles Emission and Pollution Control, CO2 Reduction Techniques

Recent Publications:

Prabakaran, B. *Influence of Plastic oil addition on the Performance of Variable Compression Ratio Engine Fueled with Diesel, Diesel-Ethanol, Diesel-Butanol, and Butanol*. No. 2021-28-0171. SAE Technical Paper, 2021.

Prabakaran, B. "Experimental investigation of compression ignition engine fueled with Biobutanol and upgraded waste engine oil for performance." *Cleaner Engineering and Technology* 4 (2021): 100202.

Prabakaran, B. *Influence of Pyrolised Waste Engine Oil into Bioethanol and Biobutanol on the Performance of a Variable Compression Ratio Engine on the Performance-An Experimental Study*. No. 2021-01-0793. SAE Technical Paper, 2021.

Prabakaran, B. *Utilization of Plastic Oil and Biobutanol as Fuel for variable Compression Ignition Engine with Modified Fuel Injection Timing and Nozzle Opening Pressure to Replace Diesel*. No. 2021-01-0565. SAE Technical Paper, 2021.

Prabakaran, B. "Influence of butanol addition on the CI engine performance fuelled with treated waste engine oil." *International Journal of Sustainable Engineering* (2021): 1-11.

Prabakaran, B. "Challenges in Blending the Diesel–Ethanol Blends Using Butanol as Co-solvent Along with Diesel for Replacing the Neat Diesel to Fuel Compression Ignition Engines Suitable for Low-Temperature Application." In *Alcohol as an Alternative Fuel for Internal Combustion Engines*, pp. 107-135. Springer, Singapore, 2021.

Prabakaran, B. *Utilization of Plastic oil and biobutanol as fuel for Compression Ignition Engine to replace diesel*. No. 2020-28-0316. SAE Technical Paper, 2020.

Prabakaran, B. *Influence of Engine Operating Parameters on the Performance of Compression Ignition Engine Fueled with Plastic Pyrolsis Oil*. No. 2020-28-0440. SAE Technical Paper, 2020.

Prabakaran, B. *Influence of Butanol and Nano Titanium Oxide into Non Edible Cotton Seed Oil Biodiesel on the Performance of CI Engine*. No. 2020-01-2134. SAE Technical Paper, 2020.

Prabakaran, B. *Influence of Nozzle Opening Pressure, Fuel Injection Timing and Compression Ratio on the Performance of Compression Ignition Engine Fueled with Biodiesel-Diesel-Butanol Blends*. No. 2020-01-0299. SAE Technical Paper, 2020.

Prabakaran, B. *Influence of Nano Alumina Oxide Addition on the Performance of Diesel Engine Fueled with Nonedible Oil Biodiesel-Butanol Blends*. No. 2020-01-5036. SAE Technical Paper, 2020.

Prabakaran, B. *Utilisation Treated Waste Engine Oil and Diesohol Blends as Fuel for Compression Ignition Engine-An Experimental Study*. No. 2019-28-2384. SAE Technical Paper, 2019.

Prabakaran, B., P. Vijayabalan, and M. Balachandar. "An assessment of diesel ethanol blend fueled diesel engine characteristics using butanol as cosolvent for optimum operating parameters." *Energy Sources Part A-recovery Utilization and Environmental Effects* (2019).

Balasubramanian, Prabakaran. *Experimental Investigation of Performance of Di Diesel Engine Fueled with Diesel Butanol Blends by Modification of Engine Operating Parameters*. No. 2019-28-0112. SAE Technical Paper, 2019.

Balasubramanian, Prabakaran, Padmanaba Sundar Shanmuga Sundaram, and Hemakumar Manoharan. *Influence of Addition of Ethanol into Non-Edible Biodiesel from Rice Bran Oil on the Properties and Performance-An Experimental Study in Direct Injection VCR Diesel Engine*. No. 2019-28-0160. SAE Technical Paper, 2019.

Balasubramanian, Prabakaran. *Experimental Investigation on Performance of a Variable Compression Ratio Engine Fueled with Diesel Butanol Blends with Nano Additives*. No. 2019-28-0157. SAE Technical Paper, 2019.

Prabakaran, B., Palanimuthu Vijayabalan, and M. Balachandar. "Experimental Investigation of ethanol-diesel-butanol blends in a compression ignition engine by modifying the operating parameters." *SAE International Journal of Engines* 11, no. 5 (2018): 547-556.

Prabakaran, B., and P. Vijayabalan. "Influence of zinc oxide nano particles on performance, combustion and emission characteristics of butanol-diesel-ethanol blends in DI CI engine." In *IOP conference series: materials science and engineering*, vol. 377, no. 1, p. 012069. IOP Publishing, 2018.

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Prabakaran, B., and Anurag Udhoji. "Experimental investigation into effects of addition of zinc oxide on performance, combustion and emission characteristics of diesel-biodiesel-ethanol blends in CI engine." *Alexandria Engineering Journal* 55, no. 4 (2016): 3355-3362.