

## Member of other University

**DC Member 2 : Dr. P Vijayabalan**

**Professor of Mechanical Engineering, Hindustan Institute of Technology and Science**

### **LIST OF PUBLICATIONS IN INTERNATIONAL JOURNALS**

TITLE	YEAR
Effective Implementation of low thermal conductivity material Yttrium Stabilized Zirconium Coating on a Diesel Engine Components Fuelled with neat Waste Cooking Oil-An ... E Sangeethkumar, M Jaikumar, P Vijayabalan, N Sasikumar, ... IOP Conference Series: Earth and Environmental Science 573 (1), 012009	2020
Influence of oxygen enrichment on performance, combustion, and emission characteristics of a stationary diesel engine fuelled with Calophyllum Inophyllum biodiesel blend PS Sundar, P Vijayabalan, M Balachandar, R Sathyamurthy, AJ Chamkha ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING	2020
Effect of water depth and insulation on the productivity of an acrylic pyramid solar still—an experimental study AM Manokar, Y Taamneh, DP Winston, P Vijayabalan, D Balaji, ... Groundwater for Sustainable Development 10, 100319	2020
Experimental investigation on pressure and heat release HCCI engine operated with chicken fat oil/diesel-gasoline blends D Karuppan, AM Manokar, P Vijayabalan, R Sathyamurthy, B Madhu, ...	2020

TITLE	YEAR
Materials Today: Proceedings	
Effect of using plastic nanofuel as a fuel in a light-duty diesel engine	2020
VK Kaimal, P Vijayabalan, M Balachandar, S Padmanaba Sundar, ...	
Heat Transfer 49 (2), 726-742	
An assessment of diesel ethanol blend fueled diesel engine characteristics using butanol as cosolvent for optimum operating parameters	2019
B Prabakaran, P Vijayabalan, M Balachandar	
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	
Influence of zinc oxide nano particles on performance, combustion and emission characteristics of butanol-diesel-ethanol blends in DI CI engine influence of zinc oxide nano ...	2018
B Prabakaran, P Vijayabalan	
IOP Conference Series: Materials Science and Engineering 377, 012069	
Experimental Investigation of Ethanol-Diesel-Butanol Blends in a Compression Ignition Engine by Modifying the Operating Parameters	2018
B Prabakaran, P Vijayabalan, M Balachandar	
SAE International Journal of Engines 11 (5), 547-556	
A detailed investigation of the combustion characteristics of a DI diesel engine fuelled with plastic oil and rice bran methyl ester	2017
VK Kaimal, P Vijayabalan	
Journal of the energy institute 90 (2), 324-330	

TITLE	YEAR
Finite Element Analysis and Experimental Investigation of Multi Layer Coating ( $\text{Al}_2\text{O}_3$ - $\text{TiO}_2$ and $\text{Cr}_2\text{C}_3$ ) on Aluminium Piston by Plasma Spray Technique. K Rahul, P Vijayabalan International Journal of Vehicle Structures & Systems (IJVSS) 8 (4)	2016
Finite Element Analysis and Experimental Investigation of Multi Layer Coating ( $\text{Al}^{\text{sub } 2^{\text{O}^{\text{sub } 3^{\text{-TiO}^{\text{sub } 2^{\text{and Cr}^{\text{sub } 2^{\text{C}^{\text{sub } 3^{\text{on Aluminium Piston by Plasma Spray ...K Rahul, P VijayabalanInternational Journal of Vehicle Structures & Systems 8 (4), 260$	2016
An investigation on the effects of using DEE additive in a DI diesel engine fuelled with waste plastic oil VK Kaimal, P Vijayabalan Fuel 180, 90-96	2016
A study on synthesis of energy fuel from waste plastic and assessment of its potential as an alternative fuel for diesel engines VK Kaimal, P Vijayabalan Waste management 51, 91-96	2016
Control of Carbon Dioxide and other Emissions from Diesel Operated Engines using Activated Charcoal S Sameer, P Vijayabalan, MS Rajadurai Adv Automob Eng 5 (149), 2	2016
EVALUATION OF THE PERFORMANCE OF $n$ -	2016

TITLE	YEAR
<p>BUTANOL–ETHANOL–DIESEL BLENDS IN A DIESEL ENGINE</p> <p>B Prabakaran, P Vijayabalan</p> <p>International Journal of Energy for a Clean Environment 17 (1)</p>	
<p>A detailed study of combustion characteristics of a DI diesel engine using waste plastic oil and its blends</p> <p>VK Kaimal, P Vijayabalan</p> <p>Energy conversion and Management 105, 951-956</p>	2015
<p>An Analysis on Combustion Characteristic of CI Engine Using Cotton Seed Methyl Ester and its Blends</p> <p>VK Kaimal, P Vijayabalan</p> <p>International Journal of Renewable Energy Research (IJRER) 5 (2), 586-590</p>	2015
<p>Performance and Emission of an LPG Diesel Dual Fuel Engine with Glow Plug</p> <p>P Sengottuvel, P Vijayabalan</p> <p>Journal of Advances in Mechanical Engineering and Technology 1 (1), 1-7</p>	2015