

Other University

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LIST OF PUBLICATIONS IN INTERNATIONAL JOURNALS

Numerical simulation and experimental analysis on the performance of a modified shower cooling tower **2021**

N Anbazhagan, A Karthikeyan, J Jayaprabakar, P Appavu

International Journal of Ambient Energy, 1-20

Experimental investigation on optimization of process parameters of cutting Ti6Al4V composite using wire cut machining **2020**

M Anish, J Jayaraman, T Arunkumar, V Jayaprakash, R Dinesh,

Materials Today: Proceedings

Effects of injection pressure on performance & emission characteristics of CI engine using graphene oxide additive in bio-diesel blend **2020**

J Jayaraman, S Reddy

Materials Today: Proceedings

Development of voice controlled robotic vehicle using Arduino processor for unmanned environment **2020**

DRI Balasubramanian, G Mageshwaran, MJ Jayaraman, Arvind, ...

AIP Conference Proceedings 2311 (1), 060001

Effect of EGR in a CI engine operated with high performance blend of diesel **2020**

J Jayaraman, K Pradip, MP Kalaiselvan, N Joy, A Mariadhas, P Appavu

AIP Conference Proceedings 2311 (1), 020008

- Influence of injection pressure on the performance of diesel engine using high performance fuel blend** **2020**
J Jayaraman, K Uttej, A Gokulnath, A Thirugnanasambandam, P Appavu, ...
AIP Conference Proceedings 2311 (1), 020006
- Investigation on blending higher alcohol with diesel in a direct injection compression ignition engine** **2020**
M Sudarasanam, J Jayaraman, A Thirugnanasambandam, P Appavu, ...
AIP Conference Proceedings 2311 (1), 020005
- Effect of EGR on performance and emission of CI engine using biodiesel blend of pork lard** **2020**
N Joy, J Jayaraman, A Mariadhas, P Appavu, R Tiwari, R Sarkar
AIP Conference Proceedings 2311 (1), 020007
- Influence of various aerodynamic setups for enhancing car braking** **2020**
K Ramar, K Paramasivam, Y Subramani, J Jayaraman, A Kumar, ...
AIP Conference Proceedings 2311 (1), 040012
- Design and analysis of composite leaf spring using aramid fibre** **2020**
K Ramar, K Paramasivam, Y Subramani, J Jayaraman, ...
AIP Conference Proceedings 2311 (1), 050014
- Performance of emission characteristics in CI engine using pig fat oil biodiesel** **2020**
A Mariadhas, J Jayaraman, A Thirugnanasambandam, J Venugopal, ...
AIP Conference Proceedings 2311 (1), 020003

- Performance, emission and combustion characteristics of the diesel engine powered by the nano emulsion of the lemon peel oil biodiesel** **2020**
K Ramar, Y Subramani, K Paramasivam, J Jayaraman, P Krishnakanth, ...
AIP Conference Proceedings 2311 (1), 020037
- Emission characteristics study of biodiesel-alcohol blends in a compression ignition engine** **2020**
M Nagappan, A Devaraj, N Joy, KJ Reddy, K Raviteja, J Jayaprabakar, ...
AIP Conference Proceedings 2311 (1), 020048
- Emission study of titanium oxide nano-additive blended rice bran biodiesel in a diesel engine** **2020**
NT Selvam, N Bharath, N Joy, KS Reddy, K Aditya, J Jayaprabakar, ...
AIP Conference Proceedings 2311 (1), 020047
- Measuring thermal conductivity, viscosity depending on temperature silicon carbide-Therminol 55 nanofluids** **2020**
A Mariadhas, J Venugopal, J Jayaraman, A Thirugnanasambandam, ...
AIP Conference Proceedings 2311 (1), 090027
- Effect of injection pressure on the performance of diesel engine fuelled with pig fat oil biodiesel** **2020**
A Mariadhas, J Jayaraman, A Thirugnanasambandam, J Venugopal, ...
AIP Conference Proceedings 2311 (1), 020009
- Comparative study of performance and emission characteristics with addition of DEE on orange peel bio-diesel** **2020**

KK Rajaraman, N Joy, J Jayaraman, Madhubalini, A Spandana, ...

AIP Conference Proceedings 2311 (1), 020019

Effect of injection timing on combustion, performance and emission characteristics of CI engine fuelled with quaternary blends

2020

A Mariadhas, J Jayaraman, N Joy, P Saikamal, PVS Yaswanth, P Appavu

AIP Conference Proceedings 2311 (1), 020010

Emission characteristics of influence of nano-additives doped biofuel in a diesel engine

2020

H Venu, N Joy, SS Reddy, CV Subramanyam, J Jayaprabakar, A Prabhu

AIP Conference Proceedings 2311 (1), 020045

Investigation on the hardness characteristic of high carbonised high chromium steel with cryogenic quenching

2020

V Subramanian, RV Maria, P Gunasekar, VS Ponnappan, J Jayaraman, ...

AIP Conference Proceedings 2311 (1), 030007

[Performance and emission characteristics of tetra hydro curcumin blends with rubberseed oil biodiesel in single cylinder diesel engine](#)

2020

A Mariadhas, V Jayaprakash, J Jayaraman, N Joy

AIP Conference Proceedings 2311 (1), 020049

[Assessment on the performance of CI engine operated with diesel and biodiesel from ayurvedic seeds](#)

2020

KK Rajaraman, N Joy, J Jayaraman, H Kiransai, P Sivashankari, JL Mercy, ...

AIP Conference Proceedings 2311 (1), 020018

Committees: 3rd International Conference on Frontiers in Automobile and Mechanical Engineering (FAME 2020) 2020

**T Sasipraba, P Subramaniam, J Jayaprabakar, N Joy, M Anish, ...
AIP Conference Proceedings 2311 (1), 010002**

Preface: 3rd International Conference on Frontiers in Automobile and Mechanical Engineering (FAME 2020) 2020

**T Sasipraba, P Subramaniam, J Jayaprabakar, N Joy, M Anish, ...
AIP Conference Proceedings 2311 (1), 010001**

Impact of titanium oxide nano additives on the performance characteristics of a CI engine fuelled with manilkarazapota methyl ester blends 2020

**J Jayaraman, M Karthik, BM Krishna, N Joy, A Mariadhas, P Appavu
Materials Today: Proceedings**

Effect of novel bio-waste derived nano particles as additives on the performance of diesel engine fuelled with waste cooking oil biodiesel blends 2020
MJ Reddy, NS Rakesh, J Jayaraman, KV Anand, P Appavu, T Arunkumar

Materials Today: Proceedings

Experimental assessment of alumina nano additives on the performance of CI engine fuelled with a high-performance fuel blend 2020

**PS Manoj, BS Kalyan, J Jayaraman, P Appavu, N Joy, A Mariadhas
Materials Today: Proceedings**

Investigation on titanium oxide nano particles as additives for operating 2020

biodiesel fuelled engine

J Jayaraman, K Dey, T Arunkumar, P Appavu, N Joy

Materials Today: Proceedings

Influence of liquid additives on waste cooking oil biodiesel-isopropanol blend operated in CI engine **1** **2020**

J Jayaraman, SMM Basha, PPSV Anil, A Mariadhas, N Joy, P Appavu

Materials Today: Proceedings

Impact of methyl, ethyl, and butyl ester blends of freshwater algae oil on the combustion, performance, and emissions of a CI engine **13*** **2020**

J Jayaraman, K Alagu, P Appavu, N Joy, A Mariadhas

Energy & Fuels 34 (8), 9763-9770

EXPERIMENTAL STUDY OF OXYGENATED ADDITIVE IN DIESEL-WASTE PLASTIC OIL-PROPANOL BLEND OPERATED IN A SINGLE-CYLINDER DIESEL ENGINE **2020**

S Ravi, A Karthikeyan, J Jayaprabakar

DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES
15 (3), 757-767

Evaluation on the consequence of cerium oxide nanoparticle additive in CI engine operated with prosopis juliflora biodiesel-diesel blends **5** **2020**

N Anbazhagan, A Karthikeyan, J Jayaraman, P Appavu

International Journal of Ambient Energy, 1-23

Analysis of a diesel engine fuelled with ternary fuel blends and alumina nano-additives at various combustion chamber geometries **11*** **2020**

G Jayaseelan, A Dhas, H Venu, J Jayaraman, P Appavu

Transactions of the Canadian Society for Mechanical Engineering

Effect of Plural Spray Coating Process Parameters on Bonding Strength of Polyurea with Steel and Aluminum for Liquid Storage Applications 2 2020

T Arunkumar, G Anand, P Venkatachalam, M Anish, J Jayaprabakar, ...
Journal of Testing and Evaluation 49 (5)

Experimental Investigation on the Treatment of Mixed Market Waste by a Novel Rotary Air Dryer 2020

P Jayaram, NR Bhattu, J Jayaraman, B Nagappan, LS Subramaniam
Waste and Biomass Valorization 11 (5), 2153-2162

Effect of compression ratio on the performance of CI engine fuelled with freshwater algae biodiesel 21 2020

A Prabhu, M Venkata Ramanan, J Jayaprabakar
International Journal of Ambient Energy 41 (1), 80-83

Assessment tools and rubrics for evaluating the capstone projects in outcome based education 1 2020

T Sasipraba, RKB Navas, NM Nandhitha, S Prakash, J Jayaprabakar, ...
Procedia Computer Science 172, 296-301

Enzymatic production of biodiesel using lipase catalyst and testing of an unmodified compression ignition engine using its blends with diesel 22 2020

J Jayaraman, K Alagu, P Appavu, N Joy, P Jayaram, A Mariadoss
Renewable Energy 145, 399-407

Measurement of temperature-dependent thermal conductivity, viscosity 9 2020

and density of ZnO-Theminol 55 Nanofluids

M Anish, J Jayaprabakar, N Joy, A Prabhu, BKK Reddy, EG Rajulu

Materials Today: Proceedings 21, 148-151

**Measurement dependent temperature of thermal conductivity and
viscosity by using Al₂O₃–Therminol 55 based nanofluid**

6 2020

M Anish, J Jayaprabakar, V Jayaprakash, A Prabhu, VB Ram, MA Jijo

Materials Today: Proceedings 21, 332-334

Effect of flame-retardant additive with polyurea for explosive environment

2019

**T Arunkumar, P Venkatachalam, N Beemkumar, J Jayaprabakar, JB
Sajin**

Materials Research Innovations

**Emission and performance characteristics study on nanographene oxide
additives doped palm oil methyl ester blend in a diesel engine**

8 2019

N Murugan, H Venu, J Jayaraman, P Appavu

International Journal of Ambient Energy, 1-7

**FABRICATION OF NANOCHITOSAN BASED BIOCOMPATIBLE
POLYMER BLEND FOR BONE TISSUE ENGINEERING
APPLICATIONS**

2019

V Sangeetha, PN Sudha, T Gomathi, J Jayaprabakar

**DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES
14 (4), 963-972**

**Enzymatic production of rice bran biodiesel and testing of its diesel blends
in a four-stroke CI engine**

16* 2019

unmodified diesel engine: Performance, combustion and emission characteristics

K Alagu, H Venu, J Jayaraman, VD Raju, L Subramani, P Appavu, ...
Energy 179, 295-305

Palm oil-based biodiesel as a novel alternative feedstock for existing unmodified DI diesel engine **6** **2019**

P Appavu, VR Madhavan, J Jayaraman, H Venu
International Journal of Ambient Energy, 1-7

Production of rice bran methyl esters and their engine characteristics in a DI diesel engine **19*** **2019**

J Jayaraman, P Appavu, A Mariadhas, P Jayaram, N Joy
International Journal of Ambient Energy, 1-9

Energy and exergy analysis of compression ignition engine fuelled with rice bran biodiesel blends **16** **2019**

A Karthikeyan, J Jayaprabakar
International journal of ambient energy 40 (4), 381-387

Enhancing heat transfer rate in a car radiator by using Al₂O₃ nanofluid as a coolant **7** **2019**

T Arunkumar, M Anish, J Jayaprabakar, N Beemkumar
International Journal of Ambient Energy 40 (4), 367-373

Effect of fuel additives and exhaust gas recirculation in biodiesel fuelled CI engine: a review **10** **2019**

P Appavu, VR Madhavan, H Venu, A Mariadoss

International Journal of Ambient Energy, 1-7

A novel alternative fuel mixture (diesel–biodiesel–pentanol) for the existing unmodified direct injection diesel engine: performance and emission characteristics **19** **2019**

P Appavu, VR Madhavan, H Venu, J Jayaraman

Transactions of the Canadian Society for Mechanical Engineering 44 (1), 1-9

Process optimization for biodiesel production from sheep skin and its performance, emission and combustion characterization in CI engine **21** **2019**

J Jayaprabakar, SS Dawn, A Ranjan, P Priyadharsini, RJ George, ...
Energy 174, 54-68

Experimental investigation of an unmodified diesel engine operated with ternary fuel **13*** **2019**

P Appavu, VR Madhavan, H Venu, J Jayaraman

Biofuels, 1-7

NO_x emission reduction techniques in biodiesel-fuelled CI engine: a review **24*** **2019**

P Appavu, V Ramanan M, J Jayaraman, H Venu

Australian Journal of Mechanical Engineering, 1-11

Influence of Nanoparticle with Jatropha Methyl Ester Blends in a Diesel Engine **20** **2019**

A Anderson, M Ramanan, A Prabhu, J Jayaprabakar

Digest Journal of Nanomaterials & Biostructures (DJNB) 14 (2)

Experimental investigation of emission characteristics on ricebran **15** **2019**

biodiesel–alcohol blends in a diesel engine

A Prabhu, M Venkata Ramanan, J Jayaprabakar, V Harish

International Journal of Ambient Energy, 1-6

Test examination of free cooling idea in building utilising thermal energy storage system

2019

S Srinivasa Ravi Sankar, V Gopala Krishna, C Venkata Rajesh, S Sarika, ...

International Journal of Ambient Energy, 1-3

Effect of diethyl ether blended with neem oil methyl esters in CI engine

14

2019

J Jayaprabakar, M Anish, N Beemkumar, A Mathew, A Alex George

International Journal of Ambient Energy 40 (2), 116-118

Investigating the performance and emission characteristics of an SI engine using Peltier element cooling effect

1

2019

J Jayaprabakar, PL Palaniappan, B Mohankumar

International Journal of Ambient Energy 40 (2), 128-130

Experimental exploration and theoretical certainty of thermal conductivity and viscosity of MgO-therminol 55 nanofluid

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2019

**M Anish, T Arunkumar, B Kanimozhi, J Jayaprabakar, N Beemkumar, ...
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects
41 ...**

Effect of flame-retardant additive with polyurea for explosive environment

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JB Sajin

Production, properties and engine characteristics of Jatropha biodiesel–a

13

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review

A Prabhu, M Venkata Ramanan, J Jayaprabakar

International Journal of Ambient Energy, 1-5

Effect of injection timing on performance and emission characteristics of palm biodiesel and diesel blends 45 2018

P Appavu

Journal of Oil Palm Research 30 (December), 674-81

Modelling and analysis of aircraft wing with and without winglet 2018

SP Venkatesan, N Beemkumar, J Jayaprabakar, PN Kadiresh

International Journal of Ambient Energy, 1-11

Analysis of heat transfer through a high strength concrete with circular pipe in a safety vessel of reactor vault 1 2018

M Anish, B Kanimozhi, S Ramachandran, J Jayaprabakar, N Beemkumar

International Journal of Ambient Energy 39 (7), 678-684

Energy and exergy analysis of a CI engine using tyre pyrolysis oil blends with diesel 4 2018

MM Irfan, J Navin Kumar, J Jayaprabakar, V Sriram

International Journal of Ambient Energy 39 (6), 632-636

Impact of antioxidant additives on the performance and emission characteristics of CI engine fuelled with B20 blend of rice bran biodiesel 27 2018

K Alagu, B Nagappan, J Jayaraman, AAG Dhas

Environmental Science and Pollution Research 25 (18), 17634-17644

Performance improvement of D-sorbitol PCM-based energy storage 9 2018

system with different fins

N Beemkumar, A Karthikeyan, B Saravanakumar, J Jayaprabakar

International Journal of Ambient Energy 39 (4), 372-376

Experimental investigation on effect of MgO nanoparticles on cold flow properties, performance, emission and combustion characteristics of waste cooking oil biodiesel **58** **2018**

A Ranjan, SS Dawn, J Jayaprabakar, N Nirmala, K Saikiran, SS Sriram
Fuel 220, 780-791

Analysis of ethanol blends on spark ignition engines **15** **2018**

V Saikrishnan, A Karthikeyan, J Jayaprabakar

International journal of ambient energy 39 (2), 103-107

Experimental Investigations on Diesel engine using Methyl esters of Jatropa oil and fish oil **4** **2017**

A Karthikeyan, J Jayaprabakar, RD Williams

IOP Conf Ser: Mater Sci Eng 197, 012020

Comparative study of performance and emissions of a CI engine using biodiesel of microalgae, macroalgae and rice bran **7** **2017**

J Jayaprabakar, A Karthikeyan, K Saikiran, N Beemkumar, N Joy

IOP Conf. Series: Materials Science and Engineering, 197-203

Optimization of Rice bran biodiesel blends on CI engine and investigating its effects **1** **2017**

J Jayaprabakar, B Dey, K Dey, B Hareesh, M Anish

MS&E 197 (1), 012016

Performance improvement of energy storage system with nano-additives in HTF N Beemkumar, A Karthikeyan, B Saravanakumar, J Jayaprabakar Frontiers in Automobile and Mechanical Engineering: IOP Conf. Series ...	4	2017
Review of Phase Change Materials Based on Energy Storage System with Applications R Thamarai Kannan, B Kanimozhi, M Anish, J Jayaprabakar, P Saravanan, ... IOP Conference Series. Materials Science and Engineering (Online) 197 (1)	3	2017
Effect of injection timing on the combustion characteristics of rice bran and algae biodiesel blends in a compression-ignition engine J Jayaprabakar, A Karthikeyan, V Rameshkumar International Journal of Ambient Energy 38 (2), 116-121	26	2017
DESIGN OF AFFORDABLE ELECTRIC VEHICLE FOR HANDICAPPED. J Jayaprabakar, K Saikiran, P Paranthaman, RN Raj, T Arunkumar International Journal on Design & Manufacturing Technologies 10 (2)	1	2016
Performance of Micro Algae methyl esters in a compression Ignition engine J Jayaprabakar, A Karthekeyan Journal of the Balkan Tribological Association 22 (3), 2711-2727	3	2016
Performance and emission characteristics of rice bran and alga biodiesel blends in a CI engine	28	2016

J Jayaprabakar, A Karthikeyan

Materials Today: Proceedings 3 (6), 2468-2474

**COMBUSTION CHARACTERISTICS OF A CI ENGINE FUELLED
WITH MACRO AND MICRO ALGAE BIODIESEL BLENDS**

2015

GA Jayaprabakar J*, Karthikeyan A, Gokula Kannan K

**Journal of Chemical and Pharmaceutical Sciences www.jchps.com ISSN:
0974 ...**

**Experimental investigation on the performance and emission
characteristics of a ci engine with rice bran and micro algae biodiesel
blends**

20 2015

J Jayaprabakar, A Karthikeyan, A Josiah, A Shajan

Journal of Chemical and Pharmaceutical sciences 7, 19-22

**Experimental Investigation on the effect of Fill materials in Cooling
Towers**

3 2015

J Jayaprabakar

Applied Mechanics and Materials 766, 505-510