

DC MEMBER

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List of Publications (Recent):

1. Study of emission characteristics of a diesel engine using cerium oxide nanoparticle blended pongamia methyl ester, International Journal of Ambient Energy, 41 (2020), pp. 524-527.
2. Emission and performance analysis of pentanol-diesel blends in unmodified diesel engine, International Journal of Ambient Energy, 41 (2020), pp. 699-702.
3. Effect of compression ratio on the performance of CI engine fuelled with freshwater algae biodiesel, International Journal of Ambient Energy, 41(2020), pp. 80-83.
4. Detailed analysis on injection timing retardation and simultaneous technology in a biodiesel-powered compression ignition engine, International Journal of Ambient Energy, 41 (2020), pp. 1437-1440.
5. Experimental and Simulation Studies on Thermoelectric Cooler: A Performance Study Approach, International Journal of Thermophysics, 41(2020), pp. 1-23.
6. Emission study for pentanol and pongamia biodiesel blends in a DI diesel engine, AIP Conference Proceedings, 2311(2020), pp. 020046.
7. Predictive Modelling and Optimization of Performance and Emissions of Acetylene Fuelled CI Engine Using ANN and RSM, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (2020), pp. 1-19.
8. Enhancement of hydrogen energy from Casuarina equisetifolia using NiO-Pr₂O₃/TiO₂ and NiO/TiO₂ nano composites, International Journal of Hydrogen Energy, (2020).
9. Comparative studies and analysis on gasification of coconut shells and corn cobs in a perforated fixed bed downdraft reactor by admitting air through equally spaced conduits, Biomass Conversion and Biorefinery, (2020), pp. 1-13.
10. Experimental Investigation of Eco-Friendly and Energy Efficient Auto and Allo Thermal Charcoal Kiln, IOP Conference Series: Materials Science and Engineering, 923 (2020), pp. 012067.
11. Predictive Modelling and Optimization of Performance and Emissions of Acetylene Fuelled CI Engine Using ANN and RSM, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (2020), pp.1-19.
12. Effect of Wood Size and Stacking on Pyrolysis Process using Prosopis Juliflora, 2020 International Conference on System, Computation, Automation and Networking (ICSCAN), (2020), pp. 1-16.
13. Quaternary Blends of Diesel/biodiesel/vegetable Oil/pentanol as a Potential Alternative Feedstock for Existing Unmodified Diesel Engine: Performance, Combustion and Emission, Energy, 186 (2019), pp. 115856.

14. Influence of Nanoparticle with Jatropha Methyl Ester Blends in a Diesel Engine, *Digest Journal of Nanomaterials & Biostructures (DJNB)*, 14 (2019).
15. A novel alternative fuel mixture (diesel–biodiesel–pentanol) for the existing unmodified direct injection diesel engine: performance and emission characteristics, *Transactions of the Canadian Society for Mechanical Engineering*, 44 (2019), pp. 1-9.
16. Experimental investigation of emission characteristics on ricebran biodiesel–alcohol blends in a diesel engine, *International Journal of Ambient Energy*, (2019), pp. 1-6.
17. NO_x emission reduction techniques in biodiesel-fuelled CI engine: a review, *Australian Journal of Mechanical Engineering*, (2019), pp.1-11.
18. Effect of fuel additives and exhaust gas recirculation in biodiesel fuelled CI engine: a review, *International Journal of Ambient Energy*, (2019), pp.1-7.
19. Experimental investigation of an unmodified diesel engine operated with ternary fuel, *Biofuels*, (2019), pp. 1-7.
20. Palm oil-based biodiesel as a novel alternative feedstock for existing unmodified DI diesel engine, *International Journal of Ambient Energy*, (2019), pp. 1-7.
21. Performance study of thermoelectric cooler using Multiphysics simulation and numerical modelling, *International Journal of Ambient Energy*, (2019), pp. 1-7.
22. Performance, Combustion and Emission Characteristics of CI Engine Fuelled with Sweet Lime Peel Oil (Citrus Limetta), *Journal of Testing and Evaluation*, 46 (2018), pp. 1799-1818.
23. Production, properties and engine characteristics of Jatropha biodiesel–a review, *International Journal of Ambient Energy*, (2018), pp. 1-5.
24. A comprehensive review of water injection and emulsion technology for biodiesel-fuelled CI engine, *International Journal of Ambient Energy*, (2018), pp. 1-5.
25. Emission Analysis on the Influence of Ferrofluid on Rice Bran Biodiesel, *Journal of the Chilean Chemical Society*, *Journal of the Chilean Chemical Society*, 62 (2018), pp. 3703-3705.
26. Influence of diethyl ether (DEE) addition in ethanol-biodiesel-diesel (EBD) and methanol-biodiesel-diesel (MBD) blends in a diesel engine, *Fuel*, 189 (2017), pp. 377-390.
27. Effect of diethyl ether and Al₂O₃ nano additives in diesel-biodiesel-ethanol blends: Performance, combustion and emission characteristics, *Journal of Mechanical Science and Technology*, 31 (2017), pp. 409-420.
28. Emission analysis of mustard oil methyl oil methyl ester at varying injection timing, *Indian Journal of Science and Technology*, 9 (2017).
29. Experimental analysis of the performance of a solar flat plate water heater with and without internal fins, *International Journal of Ambient Energy*, 38 (2017), pp. 582-589.
30. Emission Control Technique for CI Engine Using Lemon Oil as an Additive in Waste Cooking Oil and Jatropa Biodiesel, *Emission Control Technique for CI Engine Using Lemon Oil as an Additive in Waste Cooking Oil and Jatropa Biodiesel*, 4 (2016), pp. 522 – 533.
31. Modelling and Validation of Solar Flat Plate Water Heating System Subjected to Varying Absorber Geometries, *International Journal of Chemical Sciences*, 14 (2016), pp. 2259-2264.
32. Ni-Ce/SiO₂ nanocomposite: Characterization and catalytic activity in the cracking of tar in biomass gasifiers, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 38 (2016), pp. 2418-2425.

33. Comparative studies on gasification of corn cob, Casuarina wood and coconut shell in a fixed bed gasifier, *Journal of Chemical and Pharmaceutical Research*, 8 (2016), pp. 544-552.
34. An experimental analysis on tar cracking using nano structured Ni-Co/Si-P catalyst in a biomass gasifier-based power generating system, *Applied Thermal Engineering*, 97 (2016), pp. 13-21.
35. Stoichiometric equilibrium modeling of corn cob gasification and validation using experimental analysis, *Energy & Fuels*, 30 (2016), pp. 7435-7442.
36. Experimental studies on gasification of corn cobs in a fixed bed system, *Journal of Chemical and Pharmaceutical Research*, 8 (2016), pp. 667-676.
37. Performance analysis on mustard oil methyl ester as a potential alternative fuel, *Indian Journal of Science and Technology*, 9 (2016).
38. Experimental studies on gasification of corn cobs in a fixed bed system, *Journal of Chemical and Pharmaceutical Research*, 8 (2016), pp. 667-676.
39. Investigation on effect of magnetite nanofluid on performance and emission patterns of methyl esters of bio diesel, *Journal of environmental engineering and landscape management*, 24 (2016), pp. 90-96.
40. Experimental analysis on neat mustard oil methyl ester subjected to ultrasonication and microwave irradiation in four stroke single cylinder Diesel engine, *Journal of Mechanical Science and Technology*, 30 (2016), pp. 437-446.
41. Effect of magnetite ferrofluid on the performance and emissions characteristics of diesel engine using methyl esters of mustard oil, *Arabian Journal for Science and Engineering*, 41 (2016), pp. 2023-2030.
42. Effect of nano additives (titanium and zirconium oxides) and diethyl ether on biodiesel-ethanol fuelled CI engine, *Journal of Mechanical Science and Technology*, 30 (2016), pp. 2361-2368.
43. Effect of Al₂O₃ nanoparticles in biodiesel-diesel-ethanol blends at various injection strategies: Performance, combustion and emission characteristics, *Fuel*, 186 (2016), pp. 176-189.
44. Emission analysis on the influence of magnetite nanofluid on methyl ester in diesel engine, *Atmospheric Pollution Research*, 2015.
45. Performance Study of Preheated Mustard Oil methyl ester on naturally aspirated CI Engine, *Applied Mechanics and Materials*, 787 (2015), pp. 761-765.
46. Comparison of the effects of Al₂O₃ and CuO nanoparticles on the performance of a solar flat-plate collector, *Journal of Non-Equilibrium Thermodynamics*, 40 (2015), pp. 265-273.
47. Synthesis and Surface Area Determination of Alumina Nanoparticles by Chemical Combustion Method, *International Journal of ChemTech Research*, 8 (2015), pp. 413-419.
48. Experimental analysis on the influence of internal finning on the efficiency of a solar flat plate collector using Al₂O₃ nanoparticles, *Journal of Non-Equilibrium Thermodynamics*, 40 (2015), pp. 185-192.
49. Tar Mitigation in Biomass Gasification Systems using Catalysts: An Overview, *International Journal of Applied Engineering Research*, 10 (2015), pp. 9245 – 9256.
50. CFD Modelling and validation of solar flat plate collector subjected to natural convection, *International Journal of Applied Engineering Research*, 10 (2015), pp. 5935-5944.
51. Enhancement of producer gas quality in biomass gasifiers using nano Ni/Si-P catalyst, *International Journal of Applied Engineering Research*, 10 (2015), pp. 24345-24350.