

Dr. S PADMANABHAN PUBLICATIONS

1. VL Mangesh, P Tamizhdurai, P Santhana Krishnan, S Narayanan, S Umasankar, **S Padmanabhan**, K Shanthi, "Green energy: Hydroprocessing waste polypropylene to produce transport fuel" Journal of Cleaner Production 276, 124200 , 2020.
2. **S Padmanabhan**, S Thiagarajan, ADR Kumar, D Prabhakaran, M Raju, "Investigation of temperature distribution of fin profiles using analytical and CFD analysis", Materials Today: Proceedings, 2020.
3. P Jayakumar, **S Padmanabhan**, K Suthendran, GV Rajveer, "Development of safe semi-automatic and economic blood cross matching using image processing", Materials Today: Proceedings, 2020.
4. P Jayakumar, S Padmanabhan, K Suthendran, YN Kumar, M Sujith, "Identification and Analysis of Blood Group with Digital Microscope Using Image Processing", IOP Conference Series: Materials Science and Engineering 923 (1), 012013, 2020.
5. S Padmanabhan, SC Undamatla, HV Reddy, "Investigation of material impact on Truck frame design through Structural Analysis", IOP Conference Series: Materials Science and Engineering 923 (1), 012011, 2020.
6. S Padmanabhan, HV Reddy, SC Undamatla, "Design and Structural Analysis of Truck Frame", IOP Conference Series: Materials Science and Engineering 923 (1), 012012, 2020.
7. Mohamed Iqbal Shajahan, Padmanabhan Sambandam, Jee Joe Michael, Hussein Mohamed Abdelmoneam Hussein, "Environmental impact of oxyhydrogen addition on high-speed gasoline engine characteristics", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-14, 2020.
8. S Padmanabhan, T Vinod Kumar, M Chandrasekaran, S Ganesan, "Investigation of Sapindus seed biodiesel with nano additive on single cylinder diesel engine", International Journal of Ambient Energy 41 (10), 1106-1109, 2020.
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11. Padmanabhan Sambandam, Harish Venu, Balan Kuttinadar Narayanaperumal, "Effective utilization and evaluation of waste plastic pyrolysis oil in a low heat rejection single cylinder diesel engine", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-17, 2020.

- 12.S Seralathan, Akshit Bagga, Udhay Krishna Ganesan, V Hariram, T Micha Premkumar, S Padmanabhan, "Static structural analysis of wheel chair using a rocker bogie mechanism", Materials Today: Proceedings, 2020.
- 13.VL Mangesh, T Perumal, S Subramanian, S Padmanabhan, "Clean Energy from Plastic: Production of Hydroprocessed Waste Polypropylene Pyrolysis Oil Utilizing a Ni–Mo/Laponite Catalyst", Energy & Fuels 34 (7), 8824-8836, 2020.
- 14.S Ganesan, S Padmanabhan, S Mahalingam, C Shanjeevi, "Environmental impact of VCR diesel engine characteristics using blends of cottonseed oil with nano additives", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 42, 761-772, 2020.
- 15.VL Mangesh, S Padmanabhan, P Tamizhdurai, S Narayanan, A Ramesh, "Combustion and emission analysis of hydrogenated waste polypropylene pyrolysis oil blended with diesel", Journal of hazardous materials 386, 121453, 2020.
- 16.VL Mangesh, S Padmanabhan, P Tamizhdurai, A Ramesh, "Experimental investigation to identify the type of waste plastic pyrolysis oil suitable for conversion to diesel engine fuel", Journal of Cleaner Production 246, 119066 18, 2020.
- 17.AP Venkatesh, S Padmanabhan, GV Rajveer, K Yuvaja, M Muniyappan", Effect of fuel injection pressure on the performance and emission analysis of Mahua Methyl ester in a single cylinder diesel engine", International Journal of Ambient Energy, 1-5, 2020.
- 18.S Ganesan, S Padmanabhan, J Hemanandh, SP Venkatesan, "Influence of substrate temperature on coated engine piston head using multi-response optimisation techniques", International Journal of Ambient Energy, 1-8, 2019.
- 19.T Vinodkumar, M Chandrasekaran, P Vivek, S Arunkumar, S Padmanabhan, "Evaluating the Mechanical Properties of Snake Grass Fibre and Sisal Fibre Hybrid Composites by Injection Moulding Method" International Journal of Vehicle Structures & Systems 11 (3), 236-240, 2019.
- 20.VS Shaisundaram, M Chandrasekaran, Mohanraj Shanmugam, S Padmanabhan, R Muraliraja, L Karikalan, "Investigation of Momordica charantia seed biodiesel with cerium oxide nanoparticle on CI engine", International Journal of Ambient Energy, 1-5, 2019.
- 21.TV Kumar, M Chandrasekaran, P Vivek, S Arunkumar, S Padmanabhan, "Mechanical Characterization of Roselle and Sisal Fibre Reinforced Polymer Composites", International Journal of Vehicle Structures & Systems 11 (2), 203-208, 2019.
- 22.K Giridharan, P Sevel, K Senthilnathan, S Muthukumaran, S Padmanabhan, "Experimental Study on Mechanical Properties of Friction Stir Welded Dissimilar Joints of Aluminium Alloys AA8011-AA6082", International Journal of Vehicle Structures & Systems (IJVSS) 11 (2), 2019.

- 23.K Giridharan, V Jaiganesh, S Padmanabhan, "Influences of Tool Pin Profiles on Mechanical Properties of Friction Stir Welding Process of AA8011 Aluminum Alloy", Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) 2019
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- 30.S Ganesan, S Sivasaravanan, S Padmanabhan, L Krishnan, VC Aniruthan, "Effects of Nano Additives in engine emission Characteristics using Blends of Lemon Balm oil with Diesel", MS&E 197 (1), 012022, 2017
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- 39.Padmanabhan. S, "Gearbox Design Optimization by an Evolutionary Algorithm", International Journal of Applied Engineering Research 10 (11), 10614-10617, 2015.
- 40.S Padmanabhan, S Sivasaravanan, K Devasundaram, "A New Artificial Immune Algorithm for Solving Gear Design Problem", Applied Mechanics and Materials 766, 1003-1008, 2015.