

Dr.S. Periyasamy
List of Publications

TITLE	YEAR
Enhancing Diesel Engine Performance and Balancing Emissions with Effect and Contribution of MgO-ZrO ₂ and AT13 Layered Piston R Thirunavukkarasu, S Periyasamy Arabian Journal for Science and Engineering, 1-9	2020
Experimental Investigation of Thermal Barrier (8YSZ/MGO- TiO ₂) Coated Piston used in Diesel Engine. A Vadivell, S Periyasamy Journal of Applied Fluid Mechanics 13 (4)	2020
Numerical Investigation on the Cold Flow Field of a Typical Cavity-based Scramjet Combustor with Double Ramp Entry S Periyasamy, S Ragul, K Sundararaj, PS Premkumar International Journal of Turbo & Jet-Engines 1 (ahead-of-print)	2020
Experimental Analysis of Hevea Brasiliensis Methyl Ester Diesel Blend with Antioxidant Additive in a Di-diesel Engine AAM Irfan, S Periyasamy, A Gurusamy Proceedings of ICDMC 2019, 91-100	2020
Application of heterogeneous acid catalyst derived from biomass for biodiesel process intensification: a comprehensive review S Pandian, AS Saravanan, P Sivanandi, M Santra, VK Booramurthy Refining Biomass Residues for Sustainable Energy and Bioproducts, 87-109	2020
Microgeometry Optimization of Spur Gear for Electric and Hybrid Vehicle Applications S Periyasamy, VK SS, A Gopalakrishnan 2019 IEEE Transportation Electrification Conference (ITEC-India), 1-5	2019
Conversion of a low value industrial waste into biodiesel using a catalyst derived from brewery waste: An activation and deactivation kinetic study SS Arumugamurthy, P Sivanandi, S Pandian, H Choksi, D Subramanian Waste Management 100, 318-326	2019
Optimization and kinetic studies on biodiesel production from microalgae (<i>Euglena sanguinea</i>) using calcium methoxide as catalyst AP Arunachalam Sivagurulingam, P Sivanandi, S Pandian Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019
Production of biodiesel from high free fatty acid feedstock using heterogeneous acid catalyst derived from palm-fruit-bunch H Choksi, S Pandian, SS Arumugamurthy, P Sivanandi, A Sircar Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-10	2019
Activation Kinetic Study On Esterification of Palm Fatty Acid Distillate Using Heterogeneous Catalyst Derived From Peanut Shell A Sakthisaravanan, P Sivakumar, S Periyasamy, VB Himanshu Choksi ICTEA: International Conference on Thermal Engineering 2019	2019
An Inventory Model for Imperfect Production System with Rework and shortages' SP M. Sanjai International Journal of Operation Research 34	2019
Numerical Investigation on High Performance Supercritical Airfoil using Co-Flow Jet Control	2018

SP S. Ragul International Journal for Research in Applied Science & Engineering	
Vibration Analysis of Internal Combustion Petrol Engine by Mathematical Model M.Siva, Dr. S. Periyasamy International Journal for Science and Advanced Research in Technology	2018
Flutter Analysis of Unmanned Aerial Vehicle Wing Mohankumar.N, Dr. S. Periyasamy International Journal for Science and Advanced Research in Technology 4	2018
A Review Analysis of Effect of Variable Compression Ratio in Engine Using Turbocharger E. Saravanapprabhu, M. Mahendran, Dr. S. Periyasamy Themed Section: Engineering and Technology 3 (1), 309-312	2018
Effect of fuel injection timing on performance and emission characteristics of ceiba pentandra biodiesel R Tamilselvan, R Rameshbabu, R Thirunavukkarasu Materials Today: Proceedings 5 (2), 6770-6779	2018
Experimental Investigation on Shallow Solar Pond Using CuO Nano Particles D Sathish, R Thirunavukkarasu, S Jegadeeswaran, S Periyasamy Applied Mechanics and Materials 877, 409-413	2018
Investigation on Single, Four And Five Holes Fuel Injector Nozzle on Performance And Emission Characteristic of Diesel on A VCR Engine by Using Ceramic Coating Material on The Piston Crown R Thirunavukkarasu, M Mahendran, R Tamilselvan, S Periyasamy Materials Today: Proceedings 5 (2), 7577-7585	2018
Production of Biofuel from Shorea Robusta Seed Oil Using Nano MgO Catalyst AS Saravanan, S Periyasamy, P SivaKumar International Conference on Nano for Energy and Water, 113-118	2017
A Review Analysis of Effect of Variable Compression Ratio in Engine Using Turbocharger E Saravanapprabhu, M Mahendran, S Periyasamy	2017
Experimental Study of Effect of Parameters on Material Removal Rate for Electrochemical Machining of Aluminium Matrix Composite SK S.Madhankumar, Dr.K.Manonmani, Dr.S.Periyasamy, S.Rajesh International Journal of Creative Research Thoughts- 5 (1), 1062-1065	2017
Investigation on Thermal Performance of Elliptical Piston Profile in Texvel Diesel Engine MAV Dr. S. Periyasamy International Journal for Scientific Research & Development 5 (5), 180-182	2017
A Review Study on Experimental Investigation on Improving Thermal Performance of IC Engine By Varying The Piston Coating And Using Biodiesel as a Blend DSP D.Elumalai, T.Elavarasan, A.Dinesh Kumar, Prof. A.Vadivel IJSART 3 (1), 213-220.	2017
Experimental study on diesel engine using hevea brasiliensis biodiesel blend with di tertiary butyl peroxide additive as fuel AAM Irfan, S Periyasamy Int. J. Eng. Res. 6 (03)	2017
Analysis of Solar Cell with MGO Anti-Reflective Coating DSP B.Dhamodharan International Journal for Scientific Research & Development 4 (4), 414-417	2016
Optimization of Process Parameters of Friction and Wear Behavior of TiB2 Reinforced	2016

In-Situ Composites SK P.Xavier Vivek Paul, Dr.S.Periyasamy International Journal of Engineering research 4 (3), 130-134	
Experimental investigation and mathematical study of performance characteristics of solar flat plate collector using Al ₂ O ₃ /water nano fluid R Dharmalingam, KK Sivagnanaprabhu, S Periyasamy, B Senthilkumar International Journal of Mechanical Engineering and Research 5 (1)	2015
Effect of Compression Ratio on Performance and Emission Characteristic Of Diesel on a VCR Engine with Single Hole Injector Nozzle DSP R.Prakash, M.Mahendran, R.Thirunavukkarasu International Journal of Applied Engineering Research 10, 100-104	2015
Utilization of Waste Heat Recovery From Solar Panel DSP B.Dhamodharan International Journal of Applied Engineering Research 10 (88), 86-90.	2015
Studies on Mixed Waste Vegetable Oil for Production of Biodiesel by using Mg/AlNO ₃ and KOH as Catalyst MNG A.Sakthi Saravanan, S. Periyasamy, P. Sivakumar, B. Vijayakumar, V. Santhosh Journal of Chemical and Pharmaceutical Sciences, 77-79	2015
Production of Biodiesel by Cinder Supported nano MgO/KF as the Heterogeneous Base Catalyst using Rapeseed Oil MNG V. Santhosh, S. Periyasamy, P. Sivakumar, B. Vijayakumar, N. Yasvanthrajan Journal of Chemical and Pharmaceutical Sciences, 80-82	2015
Study on characteristics of CI engine using nano additive blended diesel fuel R Bharathiraja, KS Amirthagadeswaran, N Praveenkumar International Journal of Applied Engineering Research 10 (67), 328-334	2015
Analysis on Combustion of a Primary reference fuel S Periyasamy, T Alwarsamy, V Rajasekar International Journal of Engineering Science and Technology (IJEST) 4, 2244-2250	2015
Kinetics studies on Cleome viscosa using nano MgO catalyst for biodiesel production AS Saravanan, A Prasad, S Periyasamy, P Sivakumar Journal of Chemical and Pharmaceutical Sciences www. jchps. com ISSN 974, 2115	2015
Optimization of various parameters on botryococcus braunii for biodiesel production using NANO CaO catalyst ASA Prasad, AS Saravanan, S Periyasamy, P Sivakumar Journal of Chemical and Pharmaceutical Sciences www. jchps. com ISSN 974, 2115	2015