

Research Publication of External DC Member 1

Name : **Dr. V. Arul Mozhi Selvan**
Designation : Associate Professor,
Department : Mechanical Engineering
Address : Department of Mechanical Engineering,
National Institute of Technology,
Tiruchirappalli 620 015
Phone Number : 98949 20835
E-mail id : arulmozhi@nitt.edu

S.No	Journal Papers Published	Year
1.	Future Challenges and Applications of Polymer Coatings H Mohit, SM Sanjay, S Siengchin, GH Kumar, VAM Selvan, R Ruban Polymer Coatings: Technologies and Applications, 325-337	2020
2.	Mechanical and Physical Test of Hybrid Fiber Composites M Hemath, AMS Varadhappan, HK Govindarajulu, ... Hybrid Fiber Composites: Materials, Manufacturing, Process Engineering, 41-68	2020
3.	Waste to green fuels: Kinetic study of low lipid waste algae for energy development CN Kowthaman, VAM Selvan Bioresource Technology Reports 11, 100510	2020
4.	Effect of ternary blends on the noise, vibration, and emission characteristics of an automotive spark ignition engine B K Bharath Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1-22	2020
5.	Investigation on the performance, emissions and combustion characteristics of CRDI engine fueled with tallow methyl ester biodiesel blends with exhaust gas recirculation P Kanthasamy, V Selvan, A Mozhi, P Shanmugam JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	2020
6.	Effect of a Novel Chemical Treatment on the Physico-Thermal Properties of Sugarcane Nanocellulose Fiber Reinforced Epoxy Nanocomposites H Mohit, VAM Selvan	2020

	International Polymer Processing 35 (2), 211-220	
7.	Effect of Al-SiC nanoparticles and cellulose fiber dispersion on the thermomechanical and corrosion characteristics of polymer nanocomposites M Hemath, AM Selvan V Polymer Composites	2020
8.	Optimization of the tensile strength of sintered Al6061/SiC nanocomposites using response surface methodology HVMAM Selvan Materials Today: Proceedings	2020
9.	Temperature Control of Combat Aircraft Environmental Control System by Time-delay in loop with Control Input Normalization A Sathiyaseelan, VAM Selvan 2020 Fourth International Conference on Inventive Systems and Control (ICISC ...	2020
10.	Physical and thermomechanical characterization of the novel aluminum silicon carbide-reinforced polymer nanocomposites H Mohit, VAM Selvan Iranian Polymer Journal 28 (10), 823-837	2019
11.	Influence of surfactants on quaternary emulsion blend and experimental investigations on the influence of hydrogen enriched quaternary blend in DICI engine VAMS C.N. Kowthaman International Journal of Hydrogen Energy	2019
12.	Synthesis, characterization, and optimization of Schizochytrium biodiesel production using Na ⁺ -doped nanohydroxyapatite CN Kowthaman, AMS Varadappan International Journal of Energy Research 43 (8), 3182-3200	2019
13.	Synthesis of biodiesel from Schizochytrium oil using renewable catalyst and study of its quaternary blend phase behaviour CN Kowthaman IOP Conference Series: Earth and Environmental Science 268 (1), 012107	2019
14.	Effect of a Novel Chemical Treatment on Nanocellulose Fibers for Enhancement of Mechanical, Electrochemical and Tribological Characteristics of Epoxy Bio-nanocomposites MHAM Selvan V* Fibers and Polymers 20 (9), 1918-1944	2019
15.	Thermo-mechanical properties of sodium chloride and alkali-treated sugarcane bagasse fibre H Mohit, V Selvan NISCAIR-CSIR, India	2019

16.	Experimental and Statistical Analysis on Thermo-mechanical properties of Sodium Chloride and Alkaline Treated Sugarcane Bagasse Fiber VAMS H. Mohit Indian Journal of Fiber and Textile Research	2019
17.	Effect of nano-yttria dispersion on the microstructure and mechanical properties of W-Ni-Co alloys SK C. Pandi Selva Durai, V. Arul Mozhi Selvan, T.K. Singha International Journal of Materials and Product Technology	2019
18.	Effect of a novel chemical treatment on nanocellulose fibers for enhancement of mechanical, electrochemical and tribological characteristics of epoxy bio-nanocomposites HMMVAM Selvan Fibers and Polymers	2019
19.	Influence of surfactants on quaternary emulsion blend and experimental investigations on the influence of hydrogen enriched quaternary blend in DICI engine VAMS C.N. Kowthaman International Journal of Hydrogen Energy	2019
20.	Tensile and Compressive Behaviour of Nano-Yttria-Dispersed W-Ni-Co Heavy Alloys Processed by Liquid Phase Sintering CPS Durai, VAM Selvan, TK Singha, S Kumaran Transactions of the Indian Institute of Metals, 1-4	2019
21.	Experimental Investigation on Anaerobic Co-Digestion of Food Waste, De-Oiled Chicken Fat and Bio-Briquette SPAM Selvan V International Journal of Mechanical Engineering and Technology 9 (11), 1865-1872	2018
22.	Eggshell as heterogeneous catalyst for synthesis of biodiesel from high free fatty acid chicken fat and its working characteristics on a CI engine AMSV Kirubakaran, M. Journal of Environmental Chemical Engineering 6 (4), 4490-4503	2018
23.	A comprehensive review on surface modification, structure interface and bonding mechanism of plant cellulose fiber reinforced polymer based composites H Mohit, V Arul Mozhi Selvan Composite Interfaces 25 (5-7), 629-667	2018
24.	Effect of spent mushroom substrate and waste paper briquette on methane production from anaerobic digestion P Sethumadhavan, AMV Selvan Journal of Environmental Biology 39 (2), 269-276	2018

25.	A comprehensive review of low cost biodiesel production from waste chicken fat M Kirubakaran, VAM Selvan Renewable and Sustainable Energy Reviews 82, 390-401	2018
26.	Morita Equivalence Between H-Fixed Semialgebra and Smash Product Semialgebra. V Selvan, M Devendran Journal of Combinatorics & System Sciences 43	2018
27.	Arul Mozhi Selvan V M Kirubakaran A comprehensive review of low cost biodiesel production from waste chicken ...	2018
28.	INFLUENCE OF CHEMICAL SURFACE MODIFICATION ON MICRO-WEAR CHARACTERISTICS OF SUGARCANE NANOCELLULOSE EPOXY NANOCOMPOSITES H Mohit MATTER: International Journal of Science and Technology 4 (3)	2018
29.	HOPF ALGEBRA ACTIONS ON SEMIALGEBRAS. M Devendran, V Selvan Journal of Combinatorics & System Sciences 42	2017
30.	Experimental investigation on mechanical properties of chicken keratin fiber reinforced isophthalic polymer matrix composite V Selvan, H Mohit Indian Journal of Engineering 13 (33), 371-378	2016
31.	Effects of alumina nanoparticles in waste chicken fat biodiesel on the operating characteristics of a compression ignition engine NK Gurusala, VAM Selvan Clean Technologies and Environmental Policy 17 (3), 681-692	2015
32.	Performance Evaluation and Exhaust Emission of a Diesel Engine Fueled with CNSL Biodiesel SRVAMS T. Pushparaj Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 37 ...	2015
33.	<u>Performance and emission characteristics of CI engine, fuelled with diesel and oxygenated fuel blends</u> T Pushparaj, S Ramabalan, VAM Selvan International Journal of Global Warming 7 (2), 173-183	2015