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### **List of Publications**

1. Study on influence of fiber length and fiber weight proportion in mechanical behavior of Calotropis gigantea fiber-epoxy composites G Ramesh, K Subramanian, S Sathiyamurthy, S Jayabal Polymer Composites 41 (11), 4899-49061 2020
2. Mechanical Behavior of Raavi and Pineapple Fiber-reinforced Hybrid Polyester Composites JV Siddharth, ID Lawrence, S Jayabal Trends in Manufacturing and Engineering Management, 227-238 2020
3. Study of mechanical and thermal behaviours of zeo-coir hybrid polyester composites NS Balaji, S Chockalingam, S Ashokraj, D Simson, S Jayabal Materials Today: Proceedings 27, 2048-2051 2020
4. A comparative study on mechanical properties of coir fiber reinforced polymer composites filled with calcium carbonate particles S Rajamuneeswaran, J Vairamuthu, S Nagarajan, B Stalin, S Jayabal Materials Today: Proceedings 33, 4790-4792 5 2020
5. Tensile, flexural, impact, and hardness properties of alkaline-treated Sunnhemp fiber reinforced polyester composites T Krishnan, S Jayabal, VN Krishna Journal of Natural Fibers 2018
6. Study of chemical and mechanical properties of Dharbai fiber reinforced polyester composites S Kalyana Sundaram, S Jayabal, NS Balaji, G Bharathiraja Advanced Composite Materials 27 (1), 107-117 5 2018
7. Experimental study and analysis of weld parameters by GRA on MIG welding BV Sankar, ID Lawrence, S Jayabal Materials Today: Proceedings 5 (6), 14309-14316 7 2018
8. Indoor air quality investigations in hospital patient room ID Lawrence, S Jayabal, P Thirumal International Journal of Biomedical Engineering and Technology 27 (1-2), 124-138 2018
9. RETRACTED: Characterization of Particulate-Reinforced Aluminium 7075/TiB2 Composites A Chandana, ID Lawrence, S Jayabal Materials Today: Proceedings 5 (6), 14317-14326 2018
10. Gradient-based intuitive search intelligence for the optimization of mechanical behaviors in hybrid bioparticle-impregnated coir-polyester composites G Bharathiraja, S Jayabal, S Kalyana Sundaram Journal of Vinyl and Additive Technology 23 (4), 275-283 2017
11. CHARACTERIZATION OF PARTICULATE-REINFORCED ALUMINIUM 7075/TiB2 COMPOSITES P Pradeep, PSSR Kumar, S Jayabal International Journal of Civil Engineering and Technology (IJCIET) 8 (9 ... 5 2017
12. Thermal behaviours of hybrid bio particles impregnated coir-polyester composites K Christal, G Sathyamoorthy, S Nandhakumar, S Jayabal Journal of Chemical and Pharmaceutical Sciences ISSN 974, 2115 1 2017
13. Development of electroless Ni-P coatings on sisal fiber R Hemachandran, M Pugazhivadivu, S Jayabal Fibres & Textiles in Eastern Europe 2 2017
14. Investigation on performance, emission and combustion characteristics of variable compression engine fuelled with diesel, waste plastics oil blends S Ananthakumar, S Jayabal, P Thirumal Journal of the Brazilian Society of Mechanical Sciences and Engineering 39 2017
15. Prediction of spot welding parameters for dissimilar weld joints BV Sankar, ID Lawrence, S Jayabal Bonfring International Journal of Industrial Engineering and Management 2016

16. MECHANICAL BEHAVIORS OF BOILED EGG SHELL PARTICULATED COIR-VINYL ESTER COMPOSITES R Ramprasath, S Jayabal, S Satiyamurthy Polymers Research Journal 10 (4), 249 2016
17. Hybrid biocomposites from agricultural residues: mechanical, water absorption and tribological behaviors R Prithivirajan, S Jayabal, SK Sundaram, V Sangeetha Journal of Polymer Engineering 36 (7), 663-671 16 2016
18. Particle swarm and simulated annealing based intuitive search optimization of flexural behaviors in bioparticles impregnated coir fiber-vinyl ester composites R Ramprasath, S Jayabal Polymer Composites 37 (6), 1765-1774 4 2016
19. Effective design of solar still by using phase change material BA Jenis, ID Lawrence, S Jayabal Advances in Natural and Applied Sciences 10 (6 SE), 110-115 2016
20. Statistical analysis and particle swarm based optimization of mechanical properties of rice husk and termite mound soil impregnated coir-polyester composites S Jayabal, G Bharathiraja Transactions of the Indian Institute of Metals 69 (4), 925-934 2016
21. A Neural Network Based Prediction Modeling for Machinability Characteristics of Zea Fiber-Polyester Composites NS Balaji, S Jayabal, SK Sundaram Transactions of the Indian Institute of Metals 69 (4), 881-889 2 2016
22. Investigation on Impact Behavior of Rice Husk Impregnated Coir-Vinyl Ester Composites R Ramprasath, S Jayabal, SK Sundaram, G Bharathiraja, YS Munde Macromolecular Symposia 361 (1), 123-128 5 2016
23. A lexicographic multiobjective genetic algorithm for optimization of mechanical properties of crab carapace impregnated coir-polyester composites S Rajamuneeswaran, S Jayabal Polymer Composites 37 (3), 844-853 8 2016
24. Study on Mechanical Properties of Corn-Cellulose Fibers Reinforced Polyester Composites NS Balaji, S Jayabal, S Kalyana Sundaram Macromolecular Symposia 361 (1), 42-46 2016
25. Mechanical Behaviors of Rice Husk and Boiled Egg Shell Particles Impregnated Coir-Polyester Composites G Bharathiraja, S Jayabal, S Kalyana Sundaram, S Rajamuneeswaran, Macromolecular Symposia 361 (1), 136-140 7 2016
26. Optimization of impact behavior of bio particulated coir-vinyl ester composites using simulated annealing with post analysis R Ramprasath, S Jayabal Indian Journal of Fibre & Textile Research (IJFTR) 40 (4), 380-385 2016
27. Artificial neural network modeling of mechanical behaviors of zeo fiber-polyester composites NS Balaji, S Jayabal Proceedings of the Institution of Mechanical Engineers, Part E: Journal of 2016
28. Regression modeling and particle swarm optimization of mechanical properties of potassium hydroxide pretreated Dharbai fiber-reinforced polyester composites SK Sundaram, S Jayabal Proceedings of the Institution of Mechanical Engineers, Part L: Journal of 2016
29. Mechanical performance of bio particulated natural green husk coir fiber-vinyl ester composites S Jayabal, R Ramprasath, R Prithivirajan, S Sathiyamurthy, K Christal Cellulose 28 (35.7), 31-3 5 2016
30. Optimization of tensile and impact behaviours of randomly oriented short sisal fiber reinforced epoxy composites using response surface methodology R Hemachandran, M Pugazhivadivu, S Jayabal International Journal of Chem Tech Research 9 (7), 660 6 2016
31. Hybrid bio composites from agricultural residues: mechanical and thickness swelling behavior R Prithivirajan, S Jayabal, SK Sundaram, AP Kumar Cellulose 35 (31.3), 27 2016
32. FUZZY RULE BASED PREDICTION OF IAQ CHARACTERISTICS IN AIR CONDITIONED CAR P Thirumal, KS Amirthagadeswaran, S Jayabal Iranian Journal of Science and Technology Transactions of Mechanical 2015
33. Prediction of cutting process parameters in boring operations using artificial neural networks K Ramesh, T Alwarsamy, S Jayabal Journal of Vibration and Control 21 (6), 1043-1054 2015
34. Effect of Chitosan particle addition on the tensile and flexural strength of Coir fiber reinforced Polyester Composites S Rajamuneeswaran, S Jayabal, S Kalyana Sundaram, NS Balaji, Applied Mechanics and Materials 813, 30-33 3 2015

35. Bio-based composites from waste agricultural residues: mechanical and morphological properties R Prithvirajan, S Jayabal, G Bharathiraja Cellulose Chemistry and Technology 49 (1), 65-68 30 2015
36. Influence of fiber pretreatment on the mechanical properties of dharbai fiber reinforced polyester composites SK Sundaram, S Jayabal, K Nijandhan Cellul. Chem. Technol. 49, 61-64 5 2015