Name : **Dr. A. Athijayamani**
Designation : Assistant Professor (SI.Gr)
Department : Mechanical Engineering
Address : Government College of Engineering
Bodinayakanur- 625582
Phone : 9865906160
E-mail : athimania@gmail.com

No. of Publications : 27
(List to be enclosed)

Area of Specialization :
Composite Materials, Material Science

PUBLICATIONS :

1. Effects of length and content of natural cellulose fiber on the mechanical behaviors of phenol formaldehyde composites MC Das, A Athijayamani, KAV Geethan, D Santhosh, SP Singhn Materials Today: Proceedings, Elsevier, (2020/2/28)

2. Analysis of mechanical properties of Agave Sisalana Variegata/banana fiber reinforced vinyl ester composites S Venkatarajan, A Athijayamani, BV Bhuvaneswari, R Ganesamoorthy AIP Conference Proceedings 2281 (1), 020027, AIP Publishing LLC (2020/10/15)

3. Evaluation of mechanical properties of coconut shell particle/vinyl ester composite based on the untreated and treated conditions T Livingston, A Athijayamani, A Alavudeen Materials Research Express (IOP Publishing) 2020/6/16

4. Effect of mechanical properties on banana macro particle reinforced epoxy composites C Jayaseelan, P Padmanabhan, A Athijayamani, K Ramanathan NISCAIR-CSIR, India, NISCAIR-CSIR, India, (2020)

5. Effect of addition of areca fine fibers on the mechanical properties of Calotropis Gigantea fiber/phenol formaldehyde biocomposites (2019) S Venkatarajan, BV Bhuvaneswari, A Athijayamani, S Sekar Vacuum 166, 6-10

6. Effects of water absorption on the mechanical properties of RF/CSP/VE hybrid composite S Venkatarajan, A Athijayamani, R Parthiban, S Navaneethakrishnan AIP Conference Proceedings 2128 (1), 020003 (2019)

7. Taguchi method for optimization of fabrication parameters with mechanical properties in sisal fibre vinyl ester compositesS Navaneethakrishnan, A Athijayamani Australian Journal of Mechanical Engineering 15 (2), 74-83(2017)

8. Comparative investigation of mechanical properties of epoxy composites reinforced with short fibers, macro particles, and micro particles C Jayaseelan, P Padmanabhan, A Athijayamani, K Ramanathan BioResources 12 (2), 2864-2871,(2017)

9. Mechanical properties of randomly oriented Calotropis gigantea fiber-reinforced phenol formaldehyde biocomposites A Athijayamani, S Sekar, S Sidhardhan, K Ramanathan Journal of Advances in Chemistry 13 (11), 6043-6050 (2017)

10. Mechanical properties of phenol formaldehyde hybrid composites reinforced with natural cellulose fibers A Athijayamani, MC Das, S Sekar, K Ramanathan BioResources 12 (1), 1960-1967 (2017)

11. Effects Of An Addition Of Coir-Pith Particles On The Mechanical Properties And Erosive-Wear Behavior Of A Wood-Dust-Particle-Reinforced Phenol Formaldehyde Composite Vdk Vlaken, L Prahom, E Obrabo Materiali In Tehnologije 51 (5), 805-811,(2017)

12. Effects of Aspect Ratio and Loading on the Mechanical Properties of Prosopis Juliflora Fibre-reinforced Phenol Formaldehyde Composites A Sujin Jose, A Athijayamani, K Ramanathan, S Sidhardhan Fibres & Textiles in Eastern Europe,(2017)

13. Effects Of Addition Of Prosopis Juliflora Fiber On The Physical And Mechanical Properties Of Wood Dust And Coir Pith Particle Reinforced Phenol Formaldehyde Hybrid Composite A Athijayamani, As Jose, K Ramanathan, S Sidhardhanjournal Of Advances In Chemistry 13 (10), 6558-6562(2017)

14. Parametric analysis of mechanical properties of bagasse fiber-reinforced vinyl ester composites A Athijayamani, B Stalin, S Sidhardhan, C Boopathi Journal of Composite Materials 50 (4), 481-493(2016)

15. The performance of bio waste fibres reinforced polymer hybrid composite B Stalin, A Athijayamani International Journal of Materials Engineering Innovation 7 (1), 15-25(2016)

16. Mechanical properties of unidirectional aligned bagasse fibers/vinyl ester composite A Athijayamani, B Stalin, S Sidhardhan, AB Alavudeen Journal of Polymer Engineering 36 (2), 157-163(2016)

17. Mechanical properties of fragrant screwpine fiber reinforced unsaturated polyester composite: Effect of fiber length, fiber treatment and water absorption MGA Selvan, A Athijayamani Fibers and Polymers 17 (1), 104-116(2016)

18. Mechanical properties and absorption behavior of CSP filled Roselle fiber reinforced hybrid composites S Navaneethakrishnan, A Athijayamani Mater Environ Sci 7, 1674-1680 (2016)

19. Modelling and analysis of the mechanical properties of agave sisalana variegata fibre/Vinyl ester composites using Box-Behnken design of response surface methodology …A Athijayamani, R Ganesamoorthy, KT Loganathan, S Sidhardhan Strojniski Vestnik-Journal of Mechanical Engineering 62 (5), 273-282(2016)

20. Measurement and analysis of thrust force and torque in drilling of sisal fiber polymer composites filled with coconut shell powder S Navaneethakrishnan, A Athijayamani International Journal of Plastics Technology 20 (1), 42-56 (2016)

21. Physical and Mechanical Properties of Unidirectional Aligned Agave Sisalana Variegata Fiber-Reinforced Vinyl Ester Composite A Athijayamani, R Ganesamoorthy, KT Loganathan, S Sidhardhan 40 (1), 1-8(2016)

22. Modeling and multiresponse optimization of the mechanical properties of Roselle fiber-reinforced vinyl ester composite C Manickam, J Kumar, A Athijayamani, K Karthik Polymer-Plastics Technology and Engineering 54 (16), 1694-1703 (2015)

23. Taguchi method for optimization of fabrication parameters with mechanical properties in fiber and particulate reinforced composites S Navaneethakrishnan, A Athijayamani International Journal of Plastics Technology 19 (2), 227-240 (2015)

24. Mechanical and wear behaviors of untreated and alkali treated roselle fiber-reinforced vinyl ester composite C Manickam, J Kumar, A Athijayamani, N Diwahar Journal of Engineering Research 3 (3), 1-13,(2015)

25. Effect of various water immersions on mechanical properties of roselle fiber–vinyl ester composites C Manickam, J Kumar, A Athijayamani, J Easter Samuel Polymer Composites 36 (9), 1638-1646 (2015)

26. Effect Of Reinforcement Of Chopped Agave Sisalana Variegata/Banana Hybrid Fibers On The Mechanical Properties Of Vinyl Ester Resin A Athijayamani, R Ganesamoorthy, J Gobinath International Journal of Mechanical Engineering and Research 5 (1), 20-23 (2015)

27. Analysis of the tensile properties of natural fiber and particulate reinforced polymer composites using a statistical approach S Navaneethakrishnan, A Athijayamani Journal of Polymer Engineering 35 (7), 665-674 (2015)