

Annexure VII

List of the Research publications of the faculty

Journal Publications

Academic Year:2020-21

1. **V. L. Narayana** and L. B. Rao. “A brief review on the effect of alkali treatment on mechanical properties of various natural fiber reinforced polymer composites”. *Materials Today: Proceedings*, (2021), Volume 44, Part 1, 2021, Pages 1988-1994.
2. **V. Lakshmi Narayana**, L. B. Rao and S. B. R Devireddy, “Micromechanical and Experimental Analysis of Thermal Conductivity of Hemp-Palmyra Reinforced Hybrid Composites”, *Materials Today: Proceedings*, (2020), Volume 46, Part 9, 2021, Pages 3404-3408.
3. **V. Lakshmi Narayana**, L. B. Rao and S. B. R Devireddy, “Effect of Fiber Percentage and Stacking Sequence on Mechanical Performance of Unidirectional Hemp and Palmyra Reinforced Hybrid Composites”, *Revue des Composites et des Matériaux Avancés-Journal of Composite and Advanced Materials*, Vol. 30, No. 3-4, August, 2020, pp. 153-160.
4. V. Lakshmi Narayana, L. B. Rao and **S. B. R Devireddy**, “Effect of Fiber Percentage and Stacking Sequence on Mechanical Performance of Unidirectional Hemp and Palmyra Reinforced Hybrid Composites”, *Revue des Composites et des Matériaux Avancés-Journal of Composite and Advanced Materials*, Vol. 30, No. 3-4, August, 2020, pp. 153-160.
5. V. Lakshmi Narayana, L. B. Rao and **S. B. R Devireddy**, “Micromechanical and Experimental Analysis of Thermal Conductivity of Hemp-Palmyra Reinforced Hybrid Composites”, *Materials Today: Proceedings*, (2020), Volume 46, Part 9, 2021, Pages 3404-3408.
6. B. V. Subrahmanyam, Y. Abshalomu, D. Mojeswararao and **S. B. R. Devireddy**, “Experimental investigation of physical and mechanical behaviour of broom grass root and glass fiber reinforced hybrid composites”, *Materials Today: Proceedings*, (2020), In Press.
7. V. Vijaya Bhaskar, K. Srinivas and **S. B. R. Devireddy**, Investigation on physical and mechanical properties of banana and palmyra fiber reinforced epoxy composites, *Strojnícky časopis - Journal of Mechanical Engineering*, (2020), Vol. 70 (2), 167 – 180.
8. **Sk. Khader Basha**, Md. Masood, K. Ravi Kumar and P. Srinivasa Rao “Experimental analysis of diesel engine with variable flow of acetylene gas in dual fuel mode”, *International Journal of Ambient Energy*, 2020, In Press.
9. **Sk. Khader Basha**, N. V. Narasimha Rao, Sk. Meeravali, B Stalin, “Performance Analysis and control of Nox emissions in diesel engine using on-board acetylene gas from calcium carbide”, *Materials Today: Proceedings*, (2020), Vol. 33, 4887–4892.

10. **S.K. Mandru**, P. R. Raju and Ch. Ratnam “Experimental Investigations of Canola Oil Lubrication with Nano-Crystalline MoS₂ Additives in CNC End Milling of Aluminium Alloy”. IOP Conference Series: Materials Science and Engineering, (2020), Vol. 998 (1)

Academic Year:2019-20

1. V.V. Bhaskar, K. Srinivas and **S. B. R. Devireddy**, “A novel mathematical correlation for thermal conductivity of hybrid composites reinforced with natural fibers”. Materials Today: Proceedings, (2020), Vol. 26, 2208-2211.
2. G. K. Chowdari, D. K. Prasad and **S. B. R. Devireddy**, “Physical and thermal behaviour of areca and coconut shell powder reinforced epoxy composites”. Materials Today: Proceedings, (2020), Vol. 26,1402-1405.
3. **S.K. Mandru**, P. R. Raju and Ch. Ratnam, “A review of an effect of canola oil lubrication with nano molybdenum disulphide additives on machining”. International Journal of Mechanical and Production Engineering Research and Development, (2019), Vol. 9, 761-768.

Academic Year:2018-19

1. B.V. Subrahmanyam, S. G. Krishna, R. J. Kumar, and **S. B. R. Devireddy**, “Experimental and Micromechanical Thermal Characteristics of Jute Fiber Reinforced Polyester Composites”. Materials Today: Proceedings, (2019), Vol. 18, 350-356.

Academic Year:2017-18

1. V.V. Bhaskar, K. Srinivas and **S. B. R. Devireddy**, “Effect of Fiber Parameters on Mechanical Behavior of Banana- Palmyra Hybrid Fiber Reinforced Epoxy Composites”. (2018), Advanced Materials & Applications, Vol (1), 1–8.

Academic Year:2016-17

1. A Vijayakrishna, D Jawaharalal., 2017. “Experimental analysis on compression ignition engine by using convergent intake manifold”. *International Journal of Research and Innovation in Thermal Engineering (IJRITE)*, PP. 112-122

Book Chapters Publications

1. Jasti Anurag, Sandhyarani Biswas, and **Siva Bhaskara Rao Devireddy**, “Finite Element Analysis of Mechanical and Thermal Properties of Polymer Matrix Composites” in Primary and Secondary Manufacturing of Polymer Matrix Composites, CRC Press, Taylor & Francis Group (2017): 121-141, ISBN 9781498799300
2. **Siva Bhaskara Rao Devireddy** and Sandhyarani Biswas, “Processing and Mechanical Characterization of Short Banana-Jute Hybrid Fiber-Reinforced Polyester Composites” in

Processing and Characterization of Multicomponent Polymer Systems: New Insights, Apple Academic Press, 2019. 77-100, ISBN: 9781771887243.

Conference Publications

Academic Year:2020-21

1. **S. B. R. Devireddy**, B. V. Subrahmanyam and D. Mojeswararao. “Influence of fiber loading and stacking sequence on physical and mechanical characteristics of banana/jute fiber reinforced polyester composites”, 5th International Online Conference on Reuse and Recycling of Materials (ICRM – 2020) December 11-13, 2020, Mahatma Gandhi University, Kottayam, Kerala, India.

Academic Year:2019-20

1. G. Kishore Chowdari, D.V.V. Krishna Prasad and **S. B. R. Devireddy**, “Physical and Thermal Behaviour of Areca and Coconut Shell Powder Reinforced Epoxy Composites” 10th International Conference on Materials Processing and Characterization (ICMPC-2020). February 21-23, (2020), GLA University, Mathura, India
2. V. Vijaya Bhaskar, K. Srinivas and **S. B. R. Devireddy** “A Novel Mathematical Correlation for Thermal Conductivity of Hybrid Composites Reinforced with Natural Fibers” 10th International Conference on Materials Processing and Characterization (ICMPC-2020). February 21-23, (2020), GLA University, Mathura, India

Academic Year:2018-19

1. M. Suresh Kumar, R. Raju, Ch. Ratnam “A Review of an Effect of Canola Oil Lubrication with Nano Molybdenum Disulphide Additives on Machining” ICAB-2019.

Academic Year:2017-18

1. B. Subrahmanyam, K. Anand Babu and **S. B. R. Devireddy** “Experimental and Numerical Investigation of Thermal Properties of Banana Fiber Reinforced Polymer Matrix Composites”, 4th International Conference on Reuse and Recycling of Materials (ICRM-2018), March 09-11, (2018), Mahatma Gandhi University, Kottayam, India.
2. B. Subrahmanyam, S. V. Gopala Krishna and **S. B. R. Devireddy** “Experimental and Micromechanical Thermal Characteristics of Jute Fiber Reinforced Polyester Composites”, International Conference on Advances in Materials and Manufacturing Engineering, (ICAMME-2018), January 22-24, (2018) Acharya Nagarjuna University, Guntur, India.

3. **S. B. R. Devireddy** and S. Biswas, “Experimental and Micromechanical Analysis of Elastic Properties of Unidirectional Fiber Reinforced Hybrid Composites”, 25th Annual International Conference on Composites/Nano Engineering (ICCE-25), July 16-22, (2017), Rome, Italy.

Academic Year:2016-17

1. **S. B. R. Devireddy** and Sandhyarani Biswas, “Processing and Mechanical Characterization of Short Banana-Jute Hybrid Fiber Reinforced Polyester Composites”, 4th international conference on polymer processing and characterization, December 9-11, (2016), Mahatma Gandhi University, Kottayam, India.
2. K. Anand Babu, C. Sai Krishna, N. Venkata Ramana, and **S. B. R. Devireddy**, “Experimental and Micromechanical Thermal Characteristics of Jute Fiber Reinforced Polyester Composites”, International Conference on Advances in Materials and Manufacturing (ICAMM-2016), December 8 – 10, (2016), Osmania University, Hyderabad, India.
3. **V. Lakshmi Narayana**, L. B. Rao and K. Udaya kumar “Experimental investigation of mechanical properties and Water absorption behavior of broom grass root and glass Fiber reinforced hybrid composites” International conference on design and manufacturing, (2016), IITDM Chennai.
4. V. Lakshmi Narayana, L. B. Rao and **K. Udaya kumar** “Experimental investigation of mechanical properties and Water absorption behavior of broom grass root and glass Fiber reinforced hybrid composites” International conference on design and manufacturing, (2016), IITDM Chennai.