Dr.S.Madhu

Publication Details

- **MADHU, S**., BALASUBRAMANIAN, M., & KANNAN, S. (2020). SURFACE ROUGHNESS ASSESSMENT BASED ON DIGITAL IMAGE TEXTURE ANALYSIS OF CFRP COMPOSITES MACHINED BY SWIRLING ABRASIVES. *Journal of Engineering Science and Technology*, *15*(5), 3388-3403.
- Md, J. S., **Madhu, S**., Chakravarthy K, S., & Siva Naga Raju, J. (2020). Characterization of Natural Cellulose Fibers from the Stem of Albizia Julibrissin as Reinforcement for Polymer Composites. *Journal of Natural Fibers*, 1-14.
- Yogesh, S., & **Madhu, S**. (2020). Comparative study of wear and friction behavior of CFRP/AL composite laminate under dry condition. *Materials Today: Proceedings*.
- **Madhu, S**., & Balasubramanian, M. (2020). Influence of Seaweed Filler on Dry Sliding Wear of Carbon Fiber Reinforced Epoxy Composites. *Journal of Natural Fibers*, 1-11.
- Chakravarthy, S., **Madhu, S**., Raju, J. S. N., & Md, J. S. (2020). Characterization of novel natural cellulosic fiber extracted from the stem of Cissus vitiginea plant. *International Journal of Biological Macromolecules*, *161*, 1358-1370.
- Jayanth, B. V., Prathap, P., Sivaraman, P., Yogesh, S., & **Madhu, S**. (2020). Implementation of lean manufacturing in electronics industry. *Materials Today: Proceedings*.
- Yogesh, S., & **Madhu, S**. (2020). Mechanical properties evaluation of the Al reinforced CFRP fiber metal laminate. *Materials Today: Proceedings*.
- Srinivasan, R., Jacob, V., Muniappan, A., **Madhu, S**., & Sreenevasulu, M. (2020). Modeling of surface roughness in abrasive water jet machining of AZ91 magnesium alloy using Fuzzy logic and Regression analysis. *Materials Today: Proceedings*, *22*, 1059-1064.
- Sadasivan, N., **Madhu, S**., & Balasubramanian, M. (2020). Acute angle ECAP die with modification for punchless back pressure provider. *Materials Today: Proceedings*, *22*, 1228-1232.
- Ansari, A. H., Jayakumar, V., & **Madhu, S**. (2020). Wear and Friction Behaviours of Stainless Steel (SS 316) Wire Mesh and Carbon Fibre Reinforced Polymer Composite. *Trends in Manufacturing and Engineering Management*, 361-369.
- Devan, P. K., Gopinath, S., Rajesh, K., & **Madhu, S**. (2020). Improving the characteristics of engine oil using nanofluid as coolant in combat vehicles. *Materials Today: Proceedings*, *22*, 1130-1134.
- Kumar, K. V., Loganathan, T. G., & **Madhu, S**. (2020). Wear characteristics of GFRP composites on exposure to rough surface. *Materials Today: Proceedings*, *22*, 1085-1091.
- Gavaskar, S. S., & **Madhu, S**. (2020). Torsional and compression properties of cylindrical glass fiber reinforced polymer composite. *Materials Today: Proceedings*, *22*, 1149-1154.
- Loganathan, T. G., Kumar, K. V., & **Madhu, S**. (2020). Flexural and fatigue of a composite leaf spring using finite element analysis. *Materials Today: Proceedings*, *22*, 1014-1019.
- Bhanuprakash, K., **Madhu, S**., krishna, R. H., krishna, K. V., & Velmaran, K. (2019, October). An exploratory study on high speed material sorting robot using proximity

sensor. In *AIP Conference Proceedings* (Vol. 2161, No. 1, p. 020039). AIP Publishing LLC.

- Babu, K. R., Jayakumar, V., Bharathiraja, G., & **Madhu, S**. (2020). Experimental investigation of fish scale reinforced polymer composite. *Materials Today: Proceedings*, *22*, 416-418.
- Suthan, R., Jayakumar, V., & **Madhu, S**. (2019, July). Investigation on Mode I Interlaminar Fracture Toughness of Chemically Treated/Untreated Saw Dust Powder Based Jute Fabric Reinforced Epoxy Composite Structure. In *IOP Conference Series: Materials Science and Engineering* (Vol. 574, No. 1, p. 012023). IOP Publishing.
- Potom, B., **Madhu, S**., Kannan, S., & Prathap, P. (2019, July). Performance Analysis of Abrasive Water Jet Cutting Process in Carbon Fiber Epoxy Polymer Composite. In *IOP Conference Series: Materials Science and Engineering* (Vol. 574, No. 1, p. 012014). IOP Publishing.
- Kumaran, P., Suryakumari, T. S. A., & **Madhu, S**. (2019). EFFECT OF TEMPERATURE ON DIELECTRIC RESPONSE AND CHARGE TRANSFER BEHAVIOUR OF SILANE CAPPED (Fe-O) SINGLE CRYSTAL REINFORCED EPOXY THIN FILM. *DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES*, *14*(1), 249-257.
- Muniappan, A., Bharath, T., **Madhu, S**., Arunagiri, P., & Shaqib, G. M. (2018, July). Parametric optimization of WEDM control variables on magnesium AZ91 alloy by TOPSIS method. In *IOP Conference Series: Materials Science and Engineering* (Vol. 390, No. 1, p. 012109).
- **Madhu, S**., & Balasubramanian, M. (2018). Effect of swirling abrasives induced by a novel threaded nozzle in machining of CFRP composites. *The International Journal of Advanced Manufacturing Technology*, *95*(9-12), 4175-4189.
- **Madhu, S**., & Balasubramanian, M. (2018). Impact of nozzle design on surface roughness of abrasive jet machined glass fibre reinforced polymer composites. *Silicon*, *10*(6), 2453-2462.
- **Madhu, S**., & Balasubramanian, M. (2017). Effect of abrasive jet process parameters on machining glass fibre reinforced polymer composite: Einfluss der abrasiven Strahl-Prozessparameter zur Bearbeitung glasfaserverstärkter Polymer-Verbundwerkstoffe. *Materialwissenschaft und Werkstofftechnik*, *48*(11), 1146-1157.
- Kumar, R. S., **Madhu, S**., Masilamani, D., & Guna, G. (2017). Experimental investigations and improving the performance and efficiency of twin cylinder tractor engine using biodiesel from cotton seed oil. *Int J Mech Eng Technol*, *8*(11), 48-56.
- **Madhu, S**., & Balasubramanian, M. (2017). Influence of nozzle design and process parameters on surface roughness of CFRP machined by abrasive jet. *Materials and Manufacturing Processes*, *32*(9), 1011-1018.
- Madhu, S., Balasubramanian, M., & Sivakesan, R. (2006). Finite difference modeling on the temperature field of aluminium and low carbon steel in friction surfacing.