DC MEMBER DETAILS – 5 (Other University)

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Area of Specialization	: submerged friction stir welding, weld characterisation.

List of Publication (Last 5 years):

1. **Rathinasuriyan, C.,** & Kumar, V. S. S. (2020). Optimisation of submerged friction stir welding parameters of aluminium alloy using RSM and GRA. Advances in Materials and Processing Technologies, 1–14. doi:10.1080/2374068x.2020.1793264
2. **C Rathinasuriyan,** E Pavithra, R Sankar, VS Senthil Kumar. (2020). Current Status and Development of Submerged Friction Stir Welding: A Review. International Journal of Precision Engineering and Manufacturing-Green Technology, pg.1-15.
3. Umapathi, D., Devaraju, A., **Rathinasuriyan, C.,** & Raji, A. (2019). Mechanical and tribological properties of electroless nickel phosphorous and nickel Phosphorous-Titanium nitride coating. Materials Today: Proceedings. doi:10.1016/j.matpr.2019.11.283
4. **Rathinasuriyan, C**., Sankar, R., Shanbhag, A. G., & SenthilKumar, V. S. (2019). Prediction of the Average Grain Size in Submerged Friction Stir Welds of AA 6061-T6. Materials Today: Proceedings, 16, 907–917. doi:10.1016/j.matpr.2019.05.176
5. **Rathinasuriyan Chandran**, Sankar Ramaiyan, Avin Ganapathi Shanbhag, Senthil Kumar Velukkudi Santhanam. (2018). Optimization of Welding Parameters for Friction Stir Lap Welding of AA6061-T6 Alloy. Modern Mechanical Engineering, Vol 8, Issue 1, pg 31-41.
6. **Rathinasuriyan Chandran**, Senthil Kumar Velukkudi Santhanam, (2018). Submerged Friction Stir Welding of 6061-T6 Aluminium Alloy under Different Water Heads. Materials Research, volume 21, issue 6.
7. K Anand, S Elangovan, **C Rathinasuriyan**, (2018). Modeling and prediction of weld strength in ultrasonic metal welding process using artificial neural network and multiple regression method. Materials Science & Engineering International Journal, Vol 2, issue 2, pg 40-47.
8. Ramaiyan, S., Mani, U., **Chandran, R**., & Velukkudi Santhanam, S. K. (2017). Optimization of Corrosion Behavior in Submerged Friction Stir Processed Magnesium AZ31B Alloy. Volume 2: Advanced Manufacturing. doi:10.1115/imece2017-72559
9. Sankar Ramaiyan, **Rathinasuriyan Chandran**, Senthil Kumar Velukkudi Santhanam. (2017). Effect of cooling conditions on mechanical and microstructural behaviours of friction stir processed AZ31B Mg alloy. Modern Mechanical Engineering, Vol 7, Issue 4, pg 144-160.
10. **Rathinasuriyan, C**., & Kumar, V. S. S. (2017). Experimental investigation of weld characteristics on submerged friction stir welded 6061-T6 aluminum alloy. Journal of Mechanical Science and Technology, 31(8), 3925–3933. doi:10.1007/s12206-017-0738-4
11. Velukkudi Santhanam, S. K., Ramaiyan, S., Rathinaraj, L., & **Chandran, R**. (2016). Multi Response Optimization of Submerged Friction Stir Welding Process Parameters Using Grey Relational Analysis. Volume 2: Advanced Manufacturing. doi:10.1115/imece2016-65797

12. **C RATHINASURIYAN,** VS SENTHIL KUMAR. (2016). Modeling and optimization of submerged friction stir welding parameters for AA6061-T6 alloy using RSM. kovove materialy metallic materials, Volume 54, Issue no 4, pg 297-304.
13. Dr.V.S.Senthil Kumar **C.Rathinasuriyan** (2015) Submerged Friction Stir Welding and Processing: Insights of Other Researchers. International Journal of Applied Engineering Research, Volume 10, Issue November 8 special issues, pg 6530-6536.