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Area of Specialization: Composite Material

List of Publications:

1. Experimental investigation of microstructure, mechanical and wear characteristics of Cu- i/ZrC composites synthesized through friction stir processing.

T.Velmurugan, R.Subramanian, **G.Suganya Priyadharshini** and R.Raghu.

Archives of Metallurgy and Materials, **Volume** 65, **Year** 2020, **Pages** 565-574 DOI:10.24425/amm.2020.132794

2. Characterization of surface-modified natural cellulosic fiber extracted from the root of Ficus religiosa tree.

Arul Marcel Moshi A. ., Ravindran D. ., Sundara Bharathi S.R. ., Indran S. ., **Suganya Priyadharshini G.**

International Journal of Biological Macromolecules, **Volume** 156, **Year** 2020, **Pages** 997-1006. DOI:10.1016/j.ijbiomac.2020.04.117

3. Characterization of AZ31-NbC surface composite fabricated by friction stir processing Muralimanokar., Vaira Vignesh R., Padmanaban R and **Suganya Priyadharshini G**

Koroze a ochrana material , **Volume** 64, **Year** 2020, **Pages** 29-37 DOI:10.2478/kom-2020-0005

4. Effect of T6 treatment on wear behavior of Al-7Si/ ZrSiO4 composites

Satish Kumar T., Shalini S and **Suganya Priyadharshini G**

Silicon, **Year** 2020 DOI:DOI: 10.1007/s12633-020-00492-4

5. Production and characterization of Al6061/ZrC surface composites

Satish Kumar T., Shalini S and **Suganya Priyadharshini G**

International Journal of Materials Research, **Volume** 111, **Year** 2020, **Pages** 639-644 DOI:10.3139/146.111926

6. Characterization of NbC-Reinforced AA7075 Alloy Composites Produced Using Friction Stir Processing

Satish Kumar, T.;**Suganya Priyadharshini, G**.;Shalini, S.;Krishna Kumar, K.;Subramanian, R.

Transactions of the Indian Institute of Metals, **Volume** 72, **Year** 2019, **Pages** 1593-1596 DOI:10.1007/s12666-019-01566-7

7. Effects of dual phase reinforcement particles (fly ash + Al2O3) on the wear and tensile properties of the AA 7075 Al alloy based composites

T. Ram Prabhu . M. Murugan . B. P. Chiranth . R. K. Mishra . N. Rajini . P. Marimuthu . P. Dinesh Babu . **G. Suganya priyadharshini**

Journal of The Institution of Engineers (India): Series D, **Year** 2019

8. Characterization of Y2O3 particles reinforced AA6082 aluminium matrix composites produced using friction stir processing

9. J.Ramesh Kumar , M. Jayaraman , T. Satish Kumar , **G. Suganya Priyadharshinid** and J. Satheesh Kumar

Materials Research Express, **Year** 2019

10. Mechanical Properties and corrosion behavior of AZ91D-HAP surface composite fabricated by friction stir processing

RVaira Vignesh ,R Padmanaban,MGovindaraju and **G.Suganya Priyadharshini**

article Materials Research Express, Year 2019

11. Investigations on the Corrosion Behaviour of Magnesium Alloy Surface Composites AZ91D-ZrO2 Fabricated by Friction Stir Processing

RVaira Vignesh ,R Padmanaban, MGovindaraju and **G.Suganya Priyadharshini**

article Transactions of the IMF, Year 2019

12. Studies on Mechanical Properties and Corrosion Behavior of AZ91D surface modified composites fabricated by friction stir processing

G.Suganya Priyadharshini, T.Velmurugan and R.Vaira Vigneh

conference proceedings International Conference on Advances in Minerals, Metals, Materials, Manufacturing and Modelling (ICAM5 2019), Year 2019

13. Mechanical Properties and Corrosion Behavior of AZ91D-HAP surface composites fabricated by friction stir processing

G.Suganya Priyadharshini, T.Velmurugan and R.Vaira Vigneh

conference proceedings Third International Conference on Advanced Materials, Year 2019

14. Influence of Tool Traverse Speed on Microstructure and Mechanical Properties of CuNi/B4C Surface Composite

G.Suganya Priyadharshini, R.Subramanian, N.Murugan and R,Sathiskumar

conference proceedings International Conference on Industry 4.0, Year 2019

15. Mechanical properties and corrosion behaviour of AZ91D-HAP surface composites fabricated by friction stir processing

R Vaira Vignesh ., R Padmanaban ., M Govindaraju ., **G Suganya Priyadharshini .,**

article Materials Research Express, Volume 6, Year 2019

DOI:10.1088/2053-1591/ab1ded

16. Microstructure, hardness and wear behaviour of NbC reinforced AA7075 matrix composites fabricated by friction stir processing

T. Satish Kumar ., S. Shalini ., **G. Suganya Priyadharshini** ., R. Subramanian .,

Article International Journal of Materials Research, Volume 110, Year 2019, Pages 114-120

DOI:10.3139/146.111724