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### **LIST OF PUBLICATIONS**

#### **1.International Journal**

1. Natrayan L &**Senthil Kumar M**, “An integrated artificial neural network and Taguchi approach to optimize the squeeze cast process parameters of AA6061/Al<sub>2</sub>O<sub>3</sub>/SiC/Gr hybrid composites prepared by novel encapsulation feeding technique”*Materials today Communications*, 2020, 101586.
2. **Senthil Kumar M**, M Vanmathi, G Sakthivel, “SiC Reinforcement in the Synthesis and Characterization of A356/Al<sub>2</sub>O<sub>3</sub>/SiC/Gr Reinforced Composite-Paving a Way for the Next Generation of Aircraft Applications” *Silicon*, 2020
3. Natrayan L &**Senthil Kumar M**, “Influence of silicon carbide on tribological behaviour of AA2024/Al<sub>2</sub>O<sub>3</sub>/SiC/Gr hybrid metal matrix squeeze cast composite using Taguchi technique”,*Materials Research Express*, 2020, 6(12), 1265f9.
4. Natrayan L &**Senthil Kumar M**, “A potential review on influence of process parameter and effect of reinforcement on mechanical and tribological behaviour of HMMC using squeeze casting method”, *Journal of critical review*, 2020, 7(2), 1-5.
5. Natrayan L &**Senthil Kumar M**, “Optimization of squeeze casting process parameters on AA2024/Al<sub>2</sub>O<sub>3</sub>/SiC/Gr hybrid composite using taguchi and Jaya algorithm”, *International Journal of Control and Automation*, 2020, 13 (2s), 95-104.
6. Venkateswara Rao R and **Senthil Kumar M** “Effect of pin geometry on material flow characteristics of friction stir welded dissimilar AA6061/AA2014 alloys”, *Australian Journal of Mechanical Engineering*, 2020, 1-15.
7. Natrayan L &**Senthil Kumar M**, “Optimization of wear behaviour on AA6061/Al<sub>2</sub>O<sub>3</sub>/SiC metal matrix composite using squeeze casting technique – Statistical analysis”, *Materials today: Proceedings*, 2020, 27(1), 306-310.

8. AmrendraPratap Singh, **Senthil Kumar M** et al., “Processing and characterization mechanical properties of AA2024/Al<sub>2</sub>O<sub>3</sub>/ZrO<sub>2</sub>/Gr reinforced hybrid composite using stir casting technique”, Materials today: Proceedings, 2020.
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12. **Senthil Kumar M**, Managalaraja RV, Senthil Kumar K & Natrayan L, “Processing and characterization of AA2024/Al<sub>2</sub>O<sub>3</sub>/SiC reinforced hybrid composites using squeeze casting technique”, Iranian Journal of Materials Science and Engineering, 55-67, 16(2), 2019.
13. **Senthil Kumar M**, Vanmathi M, Senguttuvan G, Mangalaraja R V & Sakthivel G, “Fly ash constituent- silica and alumina role in the synthesis and Characterization of cordierite based ceramics”, Silicon (2019), 11; 2599–2611.
14. Natrayan L, S Yogeshwaran, L Yuvaraj & **Senthil Kumar M**, “ Effect of graphene reinforcement on mechanical and microstructure behavior of AA8030/graphene composites fabricated by stir casting technique”, AIP Conference Proceedings 020012, 2166 (1), 2019.
15. Natrayan L & **Senthil Kumar M**, “Mechanical, microstructure and wear behaviour of LM25/SiC/Mica metal matrix composite fabricated by squeeze casting technique”, Applied Engineering Letters, 4(2), 72-77, 2019.
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19. Natrayan L, Senthilkumar M & K Palanikumar, "Optimization of squeeze cast process parameters on mechanical properties of  $\text{Al}_2\text{O}_3/\text{SiC}$  reinforced hybrid metal matrix composites using taguchi technique", Materials Research Express, 66516, 5(6), 2018.
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30. Prashant M Patil & **Senthil Kumar M**, "Lightweight Options for Seat Structure in a Bus", Journal of Advanced Engineering Research, 72-77, 3(1), 2016.
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