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1.Kumar M, “Effect of DMLS Process on Mechanical and Tribological Behavior of AlSi10Mg Alloy and its Process Optimization Using GRA” Archives of Metallurgy and Materials - (Under Review) (SCI - Impact Factor – 0.586).

2. Pradeep Dev, Kumar Murugesan and Rameshkumar T, “Parameter optimization for fabricating Duraform GF polyamide plastic parts in SLS for dimensional accuracy and surface finish using Grey Relational Analysis”, Materials Today Proceedings - (Under Review) (Scopus Indexed).

3. Kumar M, “Influence of Tungsten Disulfide and Redmud Reinforcements on the Mechanical Behaviour of Al6061-T6 Surface Composite” Materials Today Proceedings - (Under Review) (Scopus Indexed).

4. Manojkumar S and Kumar M, “Elimination of Visor Defects Using 7 QC Tools”, IOP: Materials Science Engineering - (Under Review) (Web of Science & Scopus indexed).

5. Sangaravadivel P, Megalingam A and Kumar M, “Multi-response Process Optimization in Dry Turning of WS<sub>2</sub> Particle Reinforced Bronze Matrix Composites using GRA - TOPSIS Technique” IOP: Materials Science Engineering - (Under Review) (Web of Science & Scopus indexed).

6. A. Megalingam, M. Kumar, B. Sriram, K. Jeevanantham and P. Ram Vishnu, “Borassus fruit fiber reinforced composite: A review”, Materials Today Proceedings (Scopus Indexed) – Published online, 17 March 2020.
7. Manojkumar S, Kumar M, Ananth M, Mageshwaran G, Hariprakash P, “The Effect of Mg and Mn addition on Hardness, Tensile and Wear Properties of LM6 Aluminium alloy”, Lecture Notes in Mechanical Engineering (Scopus Indexed) -- Article in Press\*
8. M. Kumar, R. Prasanth, B. Selvakumar, V. Ranjith, “A Review on Friction Stir Processing of Al6061 Surface Composites”, AIP Conference Proceedings, ISSN: 0094-243X (print) 1551-7616 (web), Vol. 2128, July 2019, 020031, (Web of Science & Scopus indexed).
9. M. Kumar, G. Balaji and A. Megalingam, “Experimental Investigations on Friction and Wear Behavior and Parameters Optimization of Al7075-T6 alloy and Al7075/Alumina/Graphite/Redmud Hybrid Metal Matrix Composite using Grey Relational Analysis”, International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, No. 7, October 2018, pp. 1104-1118, ISSN 2249-8001. (Scopus Indexed).
10. A. Tajdeen, A. Megalingam, M. Kumar and B. Selvakumar “Multi Response Optimization of Drilling Process Parameters of AZ31 Magnesium Alloys using Gray Relational Analysis Technique”, International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, No. 7, October 2018, pp. 39-46, ISSN 2249-8001 (Scopus Indexed).
11. M. Kumar and A. Megalingam, “Tribological Characterization of Al6061/Alumina/Graphite/Redmud Hybrid Composite”, Particulate Science Technology, Vol. 37, No. 3, 2019, pp. 261-274, ISSN 1350-6501, ISSN 0272-6351. (SCI - Impact Factor - 1.619) – <https://doi.org/10.1080/02726351.2017.1367747>.
12. M. Kumar, G. Balaji, K. S. Hanumanth Ramji and A. Megalingam Murugan, “Experimental Investigation on Tribological Behavior and Grey Relational Optimization of an Eco-friendly Automobile Brake Rotor Materials”, Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 8, August 2016, pp. 2390-2401, ISSN 2249-7315.

13. Dhineshkumar K, Sivakumar M, Sivakumar K, Kumar M, “Optimization of Wire EDM Process Parameters of Al 6061/Al<sub>2</sub>O<sub>3</sub>/3% Red mud MMC”, International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE), Vol. 22, No. 2, May 2016, pp. 58-63, ISSN: 0976-1353.
14. M. Kumar, A. Megalingam, V. Baskaran and K. S. Hanumanth Ramji, “Effect of sliding distance on dry sliding tribological behaviour of Aluminium Hybrid Metal Matrix Composite (AlHMMC): An alternate for automobile brake rotor – A Grey relational approach”, Proceedings of Institutions of Mechanical Engineers - Part J: Journal of Engineering Tribology, Vol. 230, No. 4, April 2016, pp. 402-415, ISSN 1350-6501. (SCI - Impact Factor 1.397), [doi.org/10.1177/1350650115602724](https://doi.org/10.1177/1350650115602724).
15. M. Kumar, A. Megalingam and V. Baskaran, “Dry Sliding Tribological Characterization and Parameters Optimization of Aluminium Hybrid Metal Matrix Composite for Automobile Brake Rotor Applications”, International Journal of Applied Engineering Research, Vol. 10, No.24, March 2015, pp.21102-21109, ISSN 0973-4562 – Scopus Indexed.