

Name: Dr. B. Rajeswari

Earned Degree: M.E., Ph.D.

Current Designation: Associate Professor

Department: Mechanical Engineering

Contact Phone Number: 9965736751
6369200493

Email: rajeswarigcedpi@gmail.com



List of Publications

1. C. Manikandan, B. Rajeswari, "Study of Cutting Parameters On Drilling EN24 Using Taguchi Method" International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 2 Issue 7, July – 2013, Doi: 10.17577/IJERTV2IS70094.
2. B.Rajeswari, K.S.Amirthagadeswaran, K.Ramya "Microstructural Studies of Aluminium 7075- Silicon Carbide - Alumina Metal Matrix Composite", Advanced Materials Research Vols. 984-985 (2014) pp 194-199, 2014 Trans Tech Publications. doi.org/10.4028/www.scientific.net/AMR.984-985.194
3. B.Rajeswari, K.S.Amirthagadeswaran, S.M.Vadivel, "Investigation of machining parameters in end milling of AISI4340 steel", Indian Institution of Industrial Engineering Journal, Vol VII, Issue No.10, October 2014, ISSN:0970-2555 (only print)
4. B Rajeswari, KS Amirthagadaswaran and KG Anbarasu, "Investigation on mechanical properties of aluminium 7075-silicon carbide-alumina hybrid composite using Taguchi method, Australian Journal of Mechanical Engineering, Vol 13 No 2 June 2015, doi.org/10.7158/M13-051.2015.13.2
5. Rajeswari B; Amirthagadeswaran K S., "Experimental Investigation of Machinability on Hybrid Metal Matrix Composites using Particle Swarm Optimization" Asian Journal of Research in Social Sciences and Humanities Vol. 7, No. 1, January 2017, pp. 976-989. ISSN 2249-7315. DOI: 10.5958/2249-7315.2017.00036.3

6. Rajeswari B, Amirthagadeswaran K S., “Artificial Neural Network Modeling for Predicting Surface Roughness and Material Removal Rate in End Milling of AA7075-SiC-Al₂O₃ Hybrid Metal Matrix Composites”, Asian Journal of Research in Social Sciences and Humanities, Vol 6(12) pp296-306. December’2016. DOI: 10.5958/2249-7315.2016.01293.4
7. Rajeswari B; Amirthagadeswaran K S “Experimental investigation of machinability characteristics and multiresponse optimization of end milling in aluminium composites using RSM based grey relational analysis”, Measurement (Elsevier), Volume 105, July 2017, 78-86 DOI: 10.1016/j.measurement.2017.04.014
8. B.Rajeswari, K.S. Amirthagadeswaran, “Study of machinability and parametric optimization of end milling on aluminium hybrid composites using multi-objective genetic algorithm” Journal of the Brazilian Society of Mechanical Sciences and Engineering - Springer (2018) ISSN 1678-5878 Volume 40, Number 8, 1-15 DOI 10.1007/s40430-018-1293-3
9. S.Balakrishnan, B.Rajeswari “Optimization of process parameters of Al-B₄C hybrid composites using response surface methodology” IOP Conf. Series: Materials Science and Engineering, 402, (2018) 012147 doi:10.1088/1757-899X/402/1/012147
10. G.Moorthy, B.Rajeswari, “Optimization Of Squeeze Casting Process Parameters of Aluminium LM 25” (2018) International Journal of Advanced in Management, Technology and Engineering Sciences, ISSN NO : 2249-7455.
11. M. Syed Easa Faizal, B.Rajeswari, A. Ram Kumar, “Experimental Investigation of Squeeze cast Aluminium 2024/Zn alloy using Taguchi method” January 2020, Materials Today: Proceedings, vol. 22, 2020, Part 4, pp. 2412-2423
12. S.Vignesh R.Surendran, T.Sekar and B.Rajeswari, “Ballistic Impact Analysis of Graphene Nanosheets Reinforced Kevlar-29”, March 2020, Materials Today: Proceedings.
13. B. Hemalatha, Balakrishnan Rajeswari, T. Sekar, Raja Sekar, Book Chapter “Experimental Studies on Biomachining of Copper and its Behavioural Characteristics” 2021, DOI: 10.1007/978-981-15-9809-8_4, In book: Materials, Design, and Manufacturing for Sustainable Environment
14. T.Sekar, B.Hemalatha, B.Rajeswari, R.Surendran, M.Vijay, “Investigation on the effects of Aspergillus nigerin sustainable bio-micromachining of copper” Materials Today Proceedings, Volume 46, Part 9, 2021, Pages 3735-3738.

15. Vignesh S., Surendran R., Sekar T., Rajeswari B. (2021) Ballistic Performance Simulation of Graphene–Dyneema Multi-layered Armor. In: Mohan S., Shankar S., Rajeshkumar G. (eds) *Materials, Design, and Manufacturing for Sustainable Environment. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-15-9809-8_13
16. C.Manikandan, B. Rajeswari, “Experimental Investigation on Machining Characteristics of EN24 Alloy Steel using Desirability Approach”, *Materials Today: Proceedings*, 2022, Volume 65, Part 8, Pages 3581-3589
17. A.R. Udhaya, B. Rajeswari, T. Mugilan “Static Structural Investigation Of Helical Compression Spring Utilizing Different Materials For An Automobile Suspension System”, *Materials Today: Proceedings*, 2023. Volume 80, Part 2, 653-658, doi: 10.1016/j.matpr.2022.11.064.
18. Sekar Tamilperuvalathan, Haritha Kaliyaperumal Rabindranathan, Rajeswari Balakrishnan, Prabakaran Jayaraman, Surendran Ramakrishnan, “A Critical Review of the impacts of 3D Printing Technologies on Dental Medicine”, *International Journal of Engineering Research & Technology*, ISSN: 2278-0181, Vol. 12 Issue 04, April-2023. DOI : 10.17577/IJERTV12IS040148.