

Dr.S.RAVI, M.E., Ph.D.

Flat No.A1F5, VGN Imperia Phase-III
Mahalakshmi Nagar,
Thiruverkadu, Chennai-600 077
Tamilnadu, India
Mobile: 9790987817/8610052015
E-Mail: vpsravi@gmail.com

Research Publications

1. Ravi, S. and Pradeep Kumar, M. "Experimental investigations on cryogenic cooling by liquid nitrogen in the end milling of hardened steel", *Cryogenics*, Vol. 51, pp. 509-515, 2011.
2. Ravi, S. and Pradeep Kumar, M. "Effects of liquid nitrogen on cryogenic machining of AISI D2 hardened steel", *Advanced Materials Research*, Vol. 335-336, pp. 400-405, 2011.
3. Ravi, S. and Pradeep Kumar, M. "Experimental investigations of cryogenic cooling in milling of AISI D3 tool steel", *Materials and Manufacturing process*, Vol.27(10), pp.1017-1021.
4. T. Hariprasad, K. Varatharajan, S. Ravi, "Investigation of Microstructural and Mechanical Properties of Al 5083-ZrSiO₄-Gr Hybrid Composite, *International Journal of Nanoscience*, Vol. 16, No. 4 (2017) 1760029
5. T. Hariprasad, K. Varatharajan, S. Ravi, Wear Characteristics of B₄C and Al₂O₃ Reinforced with Al 5083 Metal Matrix based Hybrid Composite, *Procedia Engineering*, ELSEIVER, Page No 925-929, doi:10.1016/j.proeng.2014.12.368
6. T. Hariprasad, K. Varatharajan, S. Ravi, Experimental Study on Tribological Properties of Al 5083-Fly Ash/ ZrSiO₄ Composites under Dry Sliding Condition *International Journal of Applied Engineering Research*, Research India Publications. ISSN 0973-4562 Volume 10, Number 9 (2015) Page No 7822-7826.
7. T. Hariprasad, K. Varatharajan, S. Ravi, Evaluation of Mechanical Properties of Fly Ash-B₄C Reinforced Al 5083 Composites *International Journal of Applied Engineering Research*, Research India Publications. ISSN 0973-4562 Volume 10, Number 9 (2015) Page No 7834- 7837.
8. R.Ravi raja malarvannan , T.V. Moorthy P.Hariharan,S.Ravi, "Enhancement of wear properties on High speed steel tool using PVDcoating Technique" *Applied Mechanics and Materials* Vol. 812 (2015) pp 107-111
9. R.Ravi raja malarvannan , T.V. Moorthy P.Hariharan,S.Ravi, "Improvement of wear performance of High speed steel tool using Physical vapour deposition coating process" *Applied Mechanics and Materials* Vol. 787 (2015) pp 391-395
10. Ravi, S. and Balaji,M, "Review of the cryogenic machining in turning and milling process", *International journal of research in engineering and technology* vol.4, Issue

10:october 2015.

11. Selvam.R and Ravi. S, "Manufacturing challenges and remedies of nano SiC particulates from quarts by mechanical abaration method",Journal of innovative research and solutions" vol.2,Issue 1,Jan-Jun 2016.

12. Selvam.R and Ravi. S, "Extraction and synthesis of SiC nano particulate to enhance matrix composites",International Journal of research in advent technology" vol.3,Issue 10, october 2015.

13. Ravi. S and Balaji.M, "Review of the cryogenic machining in turning and milling process",Intenational journal of research in engineering and technology" vol.4,Issue 10:october 2015.

14. Ravi. S and Balaji.M, "Effect of Cryogenic CO₂ on Conventional Milling Machining of AISI P20 Tool Steel using Multi Coated Carbide Insert, International Journal of Control Theory and Applications, Volume 10, Number 2017.

15. Ravi. S and Balaji.M, Advanced Intelligence for Cryogenic Cooling in CO₂ and Performance Analysis of TiN Coated Insert in Conventional Milling of AISID2 Steel, International Journal of Control Theory and Applications, Volume 10, Number 2017.

16. Selvam.R and Ravi. S, "Comparative Analysis of Micro and Nano Silicon Carbide Particulate Reinforced Polyester Composite, International Journal of Control Theory and Applications, Volume 10, Number 2017.

17. Selvam.R and Ravi. S, "Characterization of Silicon Carbide Nano Particulates Developed from Quarts, International Journal of Control Theory and Applications, Volume 10, Number 2017.

18. R.Selvam and S.Ravi,Mechanical and wear behaviour of al hybrid composites reinforced with zircon sand and rice husk ash , Journal of the Balkan Tribological Association, Vol. 24, No 4, 849–857 (2018)

19. R.Selvam and S.Ravi Wear Resistance and Water Absorption Study of Sic Reinforced Polyester Composite, Materials Today, 5(2018) 14567–14572

20. R.Selvam and S.Ravi Mechanical Testing of Plastoceramic (nPMC Sheet- SiC Reinforced Polyester Nano Composite), International journal of Engineering &Technology, 7(3.12) (2018) 1195 -1198

21. R.Selvam and S.Ravi Finite Element model Based On 2D- Deform Software for the Analysis for cutting temperature, and cutting forces in Cryogenic CO₂ coolant in Conventional Machining, Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 02-Special Issue, 2018

22. V.Balaji and S.Ravi,Optimization on Cryogenic Co₂ Machining Parameters of AISI D2 Steel using Taguchi Based Grey Relational Approach and TOPSIS, International Journal of Engineering &Technology, 7(3.12) (2018) 885 -893

23. V.Balaji and S.Ravi,Evaluation of cutting forces, cutting temperature and surface roughness in Cryogenic CO₂ cooling in conventional milling machine using AISI-D2 steel, Journal of Engineering Technology, Volume6, Issue2, July. 2018, PP. 55-69

24. V.Balaji and S.Ravi,FEM method structural analysis of pressure hull by using hyper mesh, International Journal of Engineering & Technology, 7(1.5) (2018) 258-263

25. N.Velmurugan,G. Manimaran, S.Ravi,D.Jayabalakrishnan, "Mechanical Property Of Stitched Glass Fiber, Epoxy With Bentonite Clay Composite Using Hand Layup Method", International Journal of Taga, Vol. 17(71), pp.162-167,2018
26. S. Ravi and P. Gurusamy, Review of nanofluids as coolant in metal cutting operations, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.08.185>
27. S. Ravi and P. Gurusamy, Experimental studies on the effect of LN2 cooling on the machining of tool steel, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.04.734>
28. S. Ravi and P. Gurusamy, Experimental investigation of cryogenic cooling on cutting force, surface roughness and tool wear in end milling of hardened AISI D3 steel using uncoated tool, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.04.741>
29. S. Ravi, P. Gurusamy and V. Mohanavel, A review and assessment of effect of cutting fluids, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.05.054>
30. S. Ravi and P. Gurusamy, Role of cryogenic machining: A sustainable manufacturing process, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.05.276>
31. S. Ravi and P. Gurusamy, Experimental investigations on performance of TiN and TiAlN coated tools in cryogenic milling of AISI D2 hardened steel, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.05.664>
32. S. Ravi and P. Gurusamy, Cryogenic machining of AISI p20 steel under liquid nitrogen cooling, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.06.005>
33. S. Ravi and P. Gurusamy, A comparative study on coated carbide inserts performance in cryogenic end milling of AISI D2 tool steel, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.06.592>
34. S. Ravi and P. Gurusamy, Experimental investigation to study the performance of cryogenic cooling in end milling of AISI P20 steel, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.07.640>
35. Jayabalakrishnan.D,Saravanan.K,Ravi.S,Prabhu.P,Maridurai.T and Arun Prakash.V.R, "Fabrication and Characterization of Acrylonitrile Butadiene Rubber and Stitched E-Glass Fibre Tailored Nano-Silica Epoxy Resin Composite", Silicon, Springer,pp 1-9,2020