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- 1. Verma K, Anandakrishnan V, Sathish S. Modelling and analysis of abrasive water jet machining of AA2014 alloy with Al2O3 abrasive using fuzzy logic. Mater Today Proc. 2020;21:652–7.
- 2. Sathish S, Anandakrishnan V, Gupta M. Optimization of tribological behavior of magnesium metal-metal composite using pattern search and simulated annealing techniques. Mater Today Proc. 2020;21:492–6.
- 3. Anandakrishnan V, Sathish S, Muthukannan D, Dillibabu V, Balamuralikrishnan N. Dry sliding wear behavior of Inconel 718 additively manufactured by DMLS technique. Ind Lubr Tribol. 2020;
- 4. Sathish S, Anandakrishnan V, Gupta M. Analysis of wear behavior of a novel magnesium metal–metal composite. Surf Rev Lett. 2020;1950228.
- 5. Raja S, Ravichandran M, Stalin B, Anandakrishnan V. A Review on Tribological, Mechanical, Corrosion and Wear Characteristics of Stir Cast AA6061 Composites. Mater Today Proc. 2020;22:2614–21.
- 6. Shibin R, Anandakrishnan V, Sathish S, Sujana VM. Investigation on the abrasive water jet machinability of AA2014 using SiC as abrasive. Mater Today Proc. 2020;21:519–22.
- 7. Manjunath A, Anandakrishnan V, Ramachandra S, Parthiban K. Experimental investigations on the effect of pre-positioned wire electron beam additive manufacturing process parameters on the layer geometry of titanium 6Al4V. Mater Today Proc. 2020;21:766–72.
- 8. Girish G, Anandakrishnan V. Tribological behaviour of recursive friction stir processed AA7075. Ind Lubr Tribol. 2020;
- 9. Kumar CHB, Anandakrishnan V. Experimental investigations on the effect of wire arc additive manufacturing process parameters on the layer geometry of Inconel 825. Mater Today Proc. 2020;21:622–7.
- 10. Girish G, Anandakrishnan V. Optimization of dry sliding wear parameters of recursive friction stir processed aluminium 7075 alloy. Proc Inst Mech Eng Part J J Eng Tribol. 2020;1350650120941615.
- 11. Girish G, Anandakrishnan V. Determination of friction stir processing window for AA7075. Mater Today Proc. 2020;21:557–62.
- 12. Keerthivasan N, Selvaraj S, Anandakrishnan V, Thayumanvan E. Tribological Behavior of AZ91–Al 2 O 3 Composites by Powder Metallurgy. In: Advances in Manufacturing Technology. Springer, Singapore; 2019. p. 453–61.

- 13. Meignanamoorthy M, Ravichandran M, Vidhya VS, Anandakrishnan V. Microstructure and properties of high strength Al-Fe-Cu-Si-Zn alloy (AA8079) produced by mechanical alloying and powder metallurgy. Mater Test. 2019;61(7):627–34.
- 14. Selvan BMM, Anandakrishnan V, Duraiselvam M, Sundarameenakshi S. Wear testing of in situ cast AA8011-TiB2 metal matrix composites. Mater Test. 2019;61(8):779–86.
- 15. Girish G, Anandakrishnan V. Investigations on microstructural and texture evolution during recursive friction stir processing of aluminium 7075 alloy. Mater Res Express. 2019;6(12):126574.
- 16. Sathish S, Anandakrishnan V, Dillibabu V, Muthukannan D, Balamuralikrishnan N. Optimization of Coefficient of Friction for Direct Metal Laser Sintered Inconel 718. In: Advances in Manufacturing Technology. Springer, Singapore; 2019. p. 371–9.
- 17. Selvan BMM, Anandakrishnan V. Investigations on Corrosion Behaviour of AA 8011-ZrB 2 in Situ Metal Matrix Composites. In: Advances in Manufacturing Technology. Springer, Singapore; 2019. p. 335–42.
- 18. Selvan BMM, Anandakrishnan V. Investigations on Corrosion Behaviour of Composites AA 8011-ZrB2 in Situ Metal Matrix. Adv Manuf Technol Sel Proc ICAMT 2018. 2019;335.
- 19. Sathish S, Anandakrishnan V, Sankaranarayanan S, Gupta M. Optimization of wear parameters of magnesium metal-metal composite using Taguchi and GA technique. J Tribol. 2019;23:76–89.
- 20. Sathish S, Anandakrishnan V, Manoj G. Optimization of wear parameters of Mg-(5.6 Ti+ 3Al)-2.5 B4C composite. Ind Lubr Tribol. 2019;
- 21. AA8011-ZrB KSKO. Investigation of tribological behavior of AA8011-ZrB2 insitu cast-metal-matrix composites. Mater Tehnol. 2018;52(4):451–7.
- 22. Selvan BM, Anandakrishnan V, Duraiselvam M, Venkatraman R, Sathish S. Multi objective optimization of wear behaviour of in situ AA8011-ZrB2 metal matrix composites by using Taguchi-Grey analysis. In: Materials Science Forum. Trans Tech Publications Ltd; 2018. p. 162–7.
- 23. Saravanan C, Subramanian K, Anandakrishnan V, Sathish S. Tribological behavior of AA7075-TiC composites by powder metallurgy. Ind Lubr Tribol. 2018;
- 24. Baskaran S, Anandakrishnan V. Statistical analysis of Co-efficient of friction during dry sliding wear behaviour of TiC reinforced Aluminium Metal Matrix Composites. Mater Today Proc. 2018;5(6):14273–80.
- 25. Shantharaman PP, Prabhakar M, Anandakrishnan V, Sathish S. Multiobjective optimization of cold upsetting parameters for aluminium metal matrix composites. Trans Indian Inst Met. 2018;71(4):909–14.
- 26. Gnanasekaran R, Raj JB, Anandakrishnan V. Investigations on electric discharge machining of copper-Al2O3-Gr powder metallurgy composites. Int J Addit Subtractive Mater Manuf. 2018;2(1):61–73.

- 27. Saravanana S, Senthilkumar P, Ravichandran M, Anandakrishnan V. Mechanical, electrical, and corrosion behavior of AA6063/TiC composites synthesized via stir casting route. TIC. 2017;2(2.605):3–52.
- 28. Karuppiah I, Poovaraj RK, Veeramani A, Shanmugam S, Manickam R, Rangasamy R. Synthesis, characterization and forming behavior of hybrid copper matrix composites produced using powder metallurgy. Int J Mater Res. 2017;108(7):586–91.
- 29. K Ilayaraja Anandakrishnan Veeramani, S Sathish, M Ravichandran, R Ravikumar PRK. Multi-Objective Optimization Of Electric Discharge Machining Of Hybrid Copper Composite Using Taguchi Grey Relational Analysis. J Adv Chem. 2017;13(1):5923–8.
- 30. Ilayaraja K, Ranjith Kumar P, Anandakrishnan V, Sathish N, Ravichandran V, Ravikumar R. Workability behavior of hybrid copper matrix composites synthesized by powder metallurgy technique. Mech Mech Eng. 2017;21(2).
- 31. Ravichandran M, Anandakrishnan V, Duraiselvam IM, Pramanik A. Recent Issues in Materials and Manufacturing. SAGE Publications Sage UK: London, England; 2017.
- 32. Saravanan S, Palanisamy T, Ravichandran M, Anandakrishnan V, Sankar S, Balan A V. Accelerated Short-Term Techniques to Evaluate Corrosion in TiC Reinforced AA6063 Composites. J Adv Chem. 2017;13(10):5905–13.
- 33. Sandeep H, Christupaul R, Anandakrishnan V, Sathish S. Dielectric permittivity, emw filtering and mechanical strength behaviour of cuparticle/microwire-mesh reinforced unsaturated polyester composite in 2-18ghz microwave region. Dig J Nanomater Biostructures. 2016;14:145–52.
- 34. Manickam Ravichandran Shanmugam Sathish, Veeramani Anandakrishnan MT. Optimization of welding parameters to attain maximum strength in friction stir welded AA7075 joints. Mater Test. 2016;58(Issue 3):206–10.
- 35. Karthikeyan K, Anandakrishnan V, Alagesan R. Analysis and Comparison of Mechanical Properties of Alloy Steel gr. 22 Material Welded by GMAW Process with Conventional SMAW Process. Indian J Eng Sci Technol. 2016;10(1):53.
- 36. Ravichandran M, Anandakrishnan V. Hot Upset Studies on Sintered (Al TiO 2 Gr) Powder Metallurgy Hybrid Composite. 2016;135–46.
- 37. Ravichandran M, Anandakrishnan V. Optimization of powder metallurgy parameters to attain maximum strength coefficient in Al-10 wt% MoO3 composite. J Mater Res. 2015;30(15):2380.
- 38. Basak AK, Pramanik A, Islam MN, Anandakrishnan V. Challenges and recent developments on nanoparticle-reinforced metal matrix composites. In: Fillers and reinforcements for advanced nanocomposites. Woodhead Publishing; 2015. p. 349–67.
- 39. Pramanik A, Hakami F, Basak A, Islam MN, Anandakrishnan V. Surface engineering of stainless steel. In: Stainless Steel: Microstructure, Mechanical Properties and Methods of Application. Nova Science Publishers; 2015. p.

- 40. Pramanik A, Basak A, Nomani J, Littlefair G, Islam MN, Anandakrishnan V. Weldability and machinability of duplex stainless steel. Stainl steel Microstruct Mech Prop methods Appl. 2015;207–38.
- 41. Ravichandran M, Naveen Sait A, Anandakrishnan V. Synthesis and forming characteristics of Al–TiO2 powder metallurgy composites during cold upsetting under plane stress state conditions. J Sandw Struct Mater. 2015;17(3):278–94.
- 42. Baskaran S, Anandakrishnan V, Durai Selvam M, Raghuraman S, Muthaiyaa VM. Taguchi Grey Relational Analysis of Dry Sliding Wear Behaviour of Annealed AA7075-TiC metal matrix composites. In: Applied Mechanics and Materials. Trans Tech Publications Ltd; 2014. p. 258–62.
- 43. Ravichandran M, Sait AN, Anandakrishnan V. Synthesis and forming behavior of aluminium-based hybrid powder metallurgic composites. Int J Miner Metall Mater. 2014;21(2):181–9.
- 44. Devi R, Raja C, Sivaprakash S, Anandakrishnan V. Synthesis of Al7075 Alloy/Al2O3 Composite and Corrosion Study. In: Advanced Materials Research. Trans Tech Publications Ltd; 2014. p. 541–5.
- 45. Ravichandran M, Sait AN, Anandakrishnan V. Workability studies on Al+ 2.5% TiO2+ Gr powder metallurgy composites during cold upsetting. Mater Res. 2014;17(6):1489–96.
- 46. Sahu MK, Valarmathi A, Baskaran S, Anandakrishnan V, Pandey RK. Engineers, Part B: Journal of Engineering. 2014;
- 47. Raja C, Devi R, Sivaprakash S, Anandakrishnan V. Synthesis and characterization of Al7075, Al7075-10 vol.% Al2O3 composite prepared by high-energy ball milling. In: Applied Mechanics and Materials. Trans Tech Publications Ltd; 2014. p. 755–9.
- 48. Jeyasimman D, Narayanasamy R, Ponalagusamy R, Anandakrishnan V, Kamaraj M. The effects of various reinforcements on dry sliding wear behaviour of AA 6061 nanocomposites. Mater Des. 2014;64:783–93.
- 49. Ravichandran M, Sait AN, Anandakrishnan V. Densification and deformation studies on powder metallurgy Al–TiO 2–Gr composite during cold upsetting. J Mater Res. 2014;29(13):1480–7.
- 50. Baskaran S, Selvan BM, Anandakrishnan V, Venkatraman R, Durai Selvam M. Effect of Heat Treatment on Wear Behavior of Hot Extruded AA7075-4% TiC In Situ Metal Matrix Composite. In: Applied Mechanics and Materials. Trans Tech Publications Ltd; 2014. p. 263–7.
- 51. Prabhakar M, Ramesh T, Narayanasamy R, Anandakrishnan V. An Investigation on Instantaneous Workability Behavior of Aluminium SiC Air Quenched Powder Composites During Cold Upsetting. Asian J Sci Appl Technol. 2014;3(2):12–24.
- 52. Ravichandran M, Sait AN, Anandakrishnan V. Effect of TiO2 in aluminum matrix on workability behavior of powder metallurgy composites during cold upsetting. Int J Mater Res. 2014;105(4):358–64.

- 53. Arun I, Vaishnavi P, Duraiselvam M, Senthilkumar V, Anandakrishnan V. Development of carbide intermetallic layer by electric discharge alloying on AISI-D2 tool steel and its wear resistance. Int J Mater Res. 2014;105(6):544–51.
- 54. Ravichandran M, Naveen Sait A, Anandakrishnan V. Al–TiO2–Gr powder metallurgy hybrid composites with cold upset forging. Rare Met. 2014;33(6):686–96.
- 55. Arun I, Duraiselvam M, Senthilkumar V, Narayanasamy R, Anandakrishnan V. Synthesis of electric discharge alloyed nickel-tungsten coating on tool steel and its tribological studies. Mater Des [Internet]. 2014;63:257–62. Available from: http://dx.doi.org/10.1016/j.matdes.2014.06.029
- 56. Senthilkumar N, Tamizharasan T, Anandakrishnan V. An Hybrid Taguchi-Grey Relational Technique and Cuckoo Search Algorithm for Multi-Criteria Optimization in Hard Turning of AISI D3 Steel. J Adv Eng Res. 2014;1(1):16–31.
- 57. Sahu MK, Valarmathi A, Baskaran S, Anandakrishnan V, Pandey RK. Multiobjective optimization of upsetting parameters of Al-TiC metal matrix composites: A grey Taguchi approach. Proc Inst Mech Eng Part B J Eng Manuf. 2014;228(11):1501–7.
- 58. Senthilkumar N, Tamizharasan T, Anandakrishnan V. Experimental investigation and performance analysis of cemented carbide inserts of different geometries using Taguchi based grey relational analysis. Meas J Int Meas Confed [Internet]. 2014;58:520–36. Available from: http://dx.doi.org/10.1016/j.measurement.2014.09.025
- 59. Selvam B, Marimuthu P, Narayanasamy R, Anandakrishnan V, Tun KS, Gupta M, et al. Dry sliding wear behaviour of zinc oxide reinforced magnesium matrix nano-composites. Mater Des [Internet]. 2014;58:475–81. Available from: http://dx.doi.org/10.1016/j.matdes.2014.02.006
- 60. Baskaran S, Anandakrishnan V, Duraiselvam M. Investigations on dry sliding wear behavior of in situ casted AA7075-TiC metal matrix composites by using Taguchi technique. Mater Des [Internet]. 2014;60:184–92. Available from: http://dx.doi.org/10.1016/j.matdes.2014.03.074
- 61. Senthilkumar N, Tamizharasan T, Anandakrishnan V. An ANN approach for predicting the cutting inserts performances of different geometries in hard turning. Adv Prod Eng Manag. 2013;8(4):231.
- 62. Buchmeister B, Friscic D, Palcic I, Mgwatu M, Malhotra N, Senthilkumar N, et al. Advances in Production Engineering & Management. 2013;
- 63. Anandakrishnan V, Baskaran S, Sathish S. Synthesis and forming behavior of in situ AA 7075-TiC composites. In: Advanced Materials Research. Trans Tech Publications Ltd; 2013. p. 251–6.
- 64. Bensam Raj J, Marimuthu P, Prabhakar M, Anandhakrishnan V. Effect of sintering temperature on the formability and pore closure behavior of Al-SiC composites. Appl Mech Mater. 2013;392:24–30.

- 65. Muthukrishnan N, Anandakrishnan V. Determination of Optimum Parameters for Multi-Performance Characteristic in Turning of Al 6061-6% ZrB. 2012;
- 66. Mahamani A, Muthukrishnan N, Anandakrishnan V. Determination of optimum parameters for multi-performance characteristic in turning of Al 6061-6% ZrB2 in-situ Metal Matrix Composite using grey relational analysis. Int J Manuf Mater Mech Eng. 2012;2(1):11–29.
- 67. Raj JB, Marimuthu P, Prabhakar M, Anandakrishnan V. Effect of sintering temperature and time intervals on workability behaviour of Al–SiC matrix P/M composite. Int J Adv Manuf Technol. 2012;61(1–4):237–52.
- 68. Balamurugan GM, Duraiselvam M, Anandakrishnan V. Comparison of high temperature wear behaviour of plasma sprayed WC–Co coated and hard chromium plated AISI 304 austenitic stainless steel. Mater Des. 2012;35:640–6.
- 69. Anandakrishnan V, Senthilkumar V. Mathematical Modeling of Machining Parameters in Electrical Discharge Machining with Cu-B₄C Composite Electrode. Adv Mater Res [Internet]. 2012;488–489:871–5. Available from: http://www.scopus.com/inward/record.url?eid=2-s2.0-84859076979&partnerID=tZOtx3y1
- 70. Anandakrishnan V, Mahamani A. Investigations of flank wear, cutting force, and surface roughness in the machining of Al-6061–TiB 2 in situ metal matrix composites produced by flux-assisted synthesis. Int J Adv Manuf Technol. 2011;55(1–4):65–73.
- 71. Mahamani A, Anandakrishnan V. Multi-response optimization of turning parameters of Al-6061-TiB2 in-situ metal matrix composite using grey-taguchi method. Int ejournal Math Eng. 2010;246–55.
- 72. Narayanasamy R, Anandakrishnan V, Pandey KS. Effect of molybdenum addition on workability of powder metallurgy steels during cold upsetting. Mater Sci Eng A. 2009;517(1–2):30–6.
- 73. Narayanasamy R, Anandakrishnan V, Pandey KS. Effect of geometric work-hardening and matrix work-hardening on new constitutive relationship for aluminium–alumina P/M composite during cold upsetting. Int J Mech Mater Des. 2008;4(3):301.
- 74. Narayanasamy R, Anandakrishnan V, Pandey KS. Effect of carbon content on workability of powder metallurgy steels. Mater Sci Eng A. 2008;494(1–2):337–42.
- 75. Narayanasamy R, Anandakrishnan V, Pandey KS. Some aspects on plastic deformation of copper and copper–titanium carbide powder metallurgy composite preforms during cold upsetting. Int J Mater Form. 2008;1(4):189–209.
- 76. Narayanasamy R, Anandakrishnan V, Pandey KS. Comparison of workability strain and stress parameters of powder metallurgy steels AISI 9840 and AISI 9845 during cold upsetting. Mater Des. 2008;29(10):1919–25.
- 77. Narayanasamy R, Anandakrishnan V, Pandey KS. Effect of geometric work-

- hardening and matrix work-hardening on workability and densification of aluminium—3.5% alumina composite during cold upsetting. Mater Des. 2008;29(8):1582–99.
- 78. Narayanasamy R, Anandakrishnan V, Pandey KS. Effect of carbon content on instantaneous strain-hardening behaviour of powder metallurgy steels. Mater Sci Eng A. 2008;497(1–2):505–11.
- 79. Narayanasamy R, Anandakrishnan V, Sivasankaran S, Prasad KS, Pandey KS. Influence of carbon content on workability behavior of powder metallurgy steels. Trans POWDER Metall Assoc INDIA. 2006;