

Dr.M.RAVICHANDRAN

ASSOCIATE PROFESSOR

MECHANICAL ENGINEERING

Educational Qualification:

Ph.D - Mechanical Engineering –2014 –Anna University Chennai

M.Tech: Advanced Manufacturing - May 2007- SASTRA University, Tanjore.

B.E: Mechanical Engineering -April 2002- M.I.E.T Engineering College, Bharathidasan University, Tiruchirappalli.

Academic Experience : Teaching 13.10 Years

I) INTERNATIONAL JOURNALS: 53

International Journals (Science Citation Indexed)

- 1. T.K. Kandavel, R. Chandramouli and **M. Ravichandran** "Experimental study on the plastic deformation and densification characteristics of some sintered and heat treated low alloy powder metallurgy steels" Materials and Design, 31 (2010) 485–492. (Scopus)
- 2. **M. Ravichandran,** A.Naveen Sait and V.Anandakrishnan "Synthesis and forming behavior of aluminium-based hybrid powder metallurgic composites" International Journal of Mineral, Metallurgy and Materials –21 (2014) 181-189. (Scopus)
- 3. **M. Ravichandran,** A.Naveen Sait and V.Anandakrishnan "Effect of TiO₂ in aluminium matrix on workability be cdv bbhavior of powder metallurgy composites during cold upsetting" International Journal of Materials Research 105:4 (2014) 358-364. (Scopus)
- 4. **M. Ravichandran, A**. Naveen Sait and V. Anandakrishnan "Al–TiO₂–Gr powder metallurgy hybrid composites with cold upset forging" Rare Metals- 33:6 (2014) 686–696. (Scopus)
- 5. **M. Ravichandran,** A.Naveen Sait and V.Anandakrishnan "Densification and deformation studies on powder metallurgy Al–TiO2–Gr composite during cold upsetting" Journal of Materials Research 29:13 (2014) 1480-1487. (Scopus)

- 6. **M. Ravichandran,** A. Naveen Sait and V. Anandakrishnan "Workability studies on Al-TiO₂-Gr powder metallurgy composites under tri-axial stress state during cold upsetting" Materials Research- American Journal of Materials –17:6 (2014) 1489-1496. (Scopus)
- 7. **M. Ravichandran,** A. Naveen Sait and V. Anandakrishnan "Synthesis and forming characteristics of Al TiO₂ powder metallurgy composites during cold upsetting under plane stress conditions" Journal of Sandwich Structure and Materials 17:3 (2015) 278-294. (Scopus)
- 8. M.Pandi Krishnan, A.Naveen Sait and **M. Ravichandran** "Parametric optimization of resistance seam welding of stainless steel (SS 304) sheets using Taguchi's approach" Materials Testing 57: 5 (2015) 463-467. (Scopus)
- 9. **M. Ravichandran** and V. Anandakrishnan "Optimization of P/M parameters to attain maximum strength in Al-10wt. "MoO₃ composite" Journal of Materials Research 30:15 (2015) 2380-2387. (Scopus)
- 10. **M. Ravichandran,** VS.Vidhya and V. Anandakrishnan "Study of the Characteristics of Al+5wt. %TiO₂+6wt.%Gr hybrid P/M composite powders prepared by the process of ball milling" Materials Science, 51(4) (2016) 589-598. (Scopus)
- 11. **M. Ravichandran,** S. Dineshkumar "Experimental investigations on Al-TiO₂-Gr hybrid composites fabricated through stir casting route", Materials Testing 58 (3) (2016) 211-217. (Scopus)
- 12. **M. Ravichandran,** M.Thirunavukkarasu, S.Sathish and V.Ananthakrishnan "Optimization of welding parameters to attain maximum strength in friction stir welded AA7075 joints" Materials Testing 58 (3) (2016) 206-210. (Scopus)
- 13. S.Marichamy, M.Saravanan, **M. Ravichandran**, G.Veerappan "Parametric optimization of EDM process on Duplex Brass using Grey relational analysis, Journal of Materials Research, 31 (16) (2016) 2531-2537. (Scopus)
- 14. **M. Ravichandran** and V. Anandakrishnan "Hot upsetting studies on sintered (Al-TiO₂-Gr) powder metallurgy hybrid composite" Strength of Materials, 3 (2016) 135-146. (Scopus)
- 15. S.Marichamy, M.Saravanan, **M. Ravichandran** "Parametric optimization of EDM process on α-β Brass using Taguchi approach", Russian Journal of Non-Ferrous Metals, 57(6), (2016) 586–598. (Scopus)
- 16. V.Mohanavel, K.Rajan, **M.Ravichandran**, "Synthesis, characterization and properties of stir cast AA6351-Aluminium Nitride (AlN) composites" Journal of Materials Research, 31(24), (2016) 3824-3831. (Scopus)
- 17. S.Saravanan, P. Senthilkumar, **M.Ravichandran**, V.Anandakrishnan, "Mechanical, electrical and corrosion behavior of AA6063/TiC composites synthesized via stir casting route" Journal of Materials Research, 32 (3), (2017) 606-614. (Scopus)
- S. Arivukkarasan, V. Dhanalakshmi, B.Stalin, M.Ravichandran, "Mechanical and Tribological Behaviour of Tungsten Carbide (WC) Reinforced Aluminium LM4 Matrix Composites" Particulate Science and Technology – (2017) 1-7. Doi. org/ 10.1080 / 02726351. 2017.1331285. (Scopus)
- 19. K.Ilayaraja, P.Ranjith Kumar, V. Anandakrishnan, S.Sathish, **M. Ravichandran**, R.Ravi Kumar "Synthesis, characterization and forming behavior of hybrid copper matrix composites produced using powder metallurgy" International Journal of Materials Research- 108: 7 (2017) 586-591. (Scopus)

- 20. **M.Ravichandran**, V. Anandakrishnan, M.Duraiselvam, Alokesh Pramanik, Recent Issues in Materials and Manufacturing, Advances in Mechanical Engineering Editorial, 9(12) (2017),1–2. (Scopus)
- 21. B. Stalin · G. T. Sudha, **M. Ravichandran** "Investigations on Characterization and Properties of Al-MoO3 composites synthesized through Powder Metallurgy Technique, Silicon doi.org/10.1007/s12633-018-9803-6.
- 22. S.Dinesh Kumar and **M. Ravichandran**, "Synthesis, characterization and wire electric erosion behaviour of AA7178-10 wt. % ZrB2 composite" Silicon- DOI 10.1007/s12633-018-9802-7.
- 23. B.Stalin, **M.Ravichandran**, Rameshkumar, Optimization of reinforcement and wear parameters to minimize the wear behavior of AA6063-Si3N4 Composite, Materials Express Research, 5 (2018) 1-10.
- 24. S.Saravanan, P, Senthilkumar, **M, Ravichandran**, N, Shivasankaran, Wire electrical discharge machining of AA6063- TiC particle reinforced metal matrix composites using Taguchi method, Materials Research Express 5(10) (2018).
- 25. S.Dinesh Kumar and **M. Ravichandran**, "Synthesis, microstructure, properties and EDM behavior of hard ZrB2 reinforced AA7178 composite" Materials Testing, 60 (9) (2018) 877-884.
- 26. M.Meignanamoorthy, **M.Ravichandran**, Effect of hot extrusion and the amount of boron carbide on the properties and microstructure of AA8079- B4C composites produced via ball milling and powder metallurgy—Materials Research Express, 5 (2018) 116508.

<u>International Journals (Scopus Indexed)</u>

- 1. S.Saravanan, P.Senthilkumar and **M. Ravichandran**, K.Kaviya "Microstructure and Stress-Strain Analysis of AA6063-5&7.5wt.%TiC Nano Composites, Journal of Chemical and Pharmaceutical Sciences -11 (2015) 39-42. (Conference Paper)
- 2. S.Saravanan, **M.Ravichandran**, V.Balasubramaniyan, "Comparison Studies on Effect of Thermal Spray Coating in Internal Combustion Engine" Mechanics and Mechanical Engineering, 20 (1) (2016) 23–32.
- 3. **M. Ravichandran,** A. Naveen Sait, "Evaluation of Seam Welding Parameters of Stainless steel (SS 316) sheets using Taguchi Technique" International Journal of Manufacturing Technology and Research, 7(3-4) (2015) 175-186.
- 4. **M.Ravichandran**, S.Saravanan, V.Balasubramanian "Investigations on Erosion and Corrosion behavior of high-velocity oxy-fuel sprayed WC-Cr₃C₂-Ni coatings in AISI 1018 Steels" HTM Journal of Heat Treatment and Materials, 71 (4), (2016) 163-169.
- 5. S.Marichamy, M.Saravanan, **M. Ravichandran**, B Stalin "Optimization of Surface Roughness for Duplex Brass Alloy in EDM Using Response Surface Methodology, Mechanics and Mechanical Engineering, 21(1), (2017) 57-66.
- 6. S.Sakthivelu, M.Meignanamoorthy, **M.Ravichandran** "Optimization of Machining Parameters in CNC Drilling of Aluminium 6351 Alloy, Pakistan Journal of Bio Technology, 14, (2017) 106-108.

- 7. S.Sakthivelu, T. Anandaraj, M. Meignanamoorthy, M. Ravichandran "Prediction of Optimized Machining Parameters in CNC End Milling, Pakistan Journal of Bio Technology, 14, (2017) 103-105. (Conference Paper)
- 8. K.Ilayaraja, P.Ranjith Kumar, V. Anandakrishnan, S.Sathish, **M. Ravichandran**, R.Ravi Kumar "Workability Behavior of Hybrid Copper Matrix Composites Synthesized by Powder Metallurgy Technique" Mechanics and Mechanical Engineering 21(2) (2017) 207-216.
- 9. **M. Ravichandran** "Process parameters optimization for plasma transferred arc welding of Stainless Steel 316 using Taguchi technique" HTM Journal of Metals and Materials 72 (5) (2017) 300-307.
- 10. **M.Ravichandran**, A.Naveen Sait, U.Vignesh "Investigation on TIG welding parameters of 2205 duplex stainless steel" International Journal of Automotive and Mechanical Engineering 14(3) (2017) 4518-4530.
- 11. M.Meignanamoorthy and **M.Ravichandran**, Synthesis of Metal Matrix Composites via Powder Metallurgy Route: A Review, Mechanics and Mechanical Engineering Vol. 22, No. 1 (2018) 65–75.
- 12. S. Sakthivelu, P. P. Sethusundaram, M. Meignanamoorthy, M. Ravichandran, Synthesis of Metal Matrix Composites through Stir Casting Process a Review, Mechanics and Mechanical Engineering Vol. 22, No. 1 (2018) 357–369.
- 13. B.Stalin, **M.Ravichandran**, S. Arivukkarasan , V. Mohanavel, Weight Loss Corrosion Studies of Aluminium-LM4 Reinforced With Alumina Silicate (Al₂O₃SiO₂) Particulates Composites In Sodium Chloride (NaCl) Solution, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Special Issue, 2018, 329-336.
- 14. B.Stalin, **M.Ravichandran** & M.Meignanamoorthy, Synthesis of Metal Matrix Composites and Alloys by Mechanical Alloying: A Review, IOP conference series: Material science and Engineering, 402 (2018) 012097 (Conference Paper)
- 15. A. Praveen Kumar, M.Meignanamoorthy & **M.Ravichandran**, Influence Of Sintering Temperature And The Amount Of Reinforcement On The Microstructure And Properties Of Al–TiO2 Composites, International Journal of Mechanical Engineering and Technology (IJMET), 9(9) 2018, 826-832.
- 16. G.Veerappan, M. Ravichandran and S.Marichamy, Mechanical properties and Machinability of Waspaloy for Aerospace Applications: A Review, IOP conference series: Material science and Engineering, 402 (2018) 012039. (Conference Paper)
- 17. **M.Ravichandran**, S.Dinesh Kumar, Aluminium Metal Matrix Composite with Zirconium diboride Reinforcement: A Review, ICMPC 2018, Hydrabad, Materials Today Proceeding. Materials Today: Proceedings 5 (2018) 19844–19847. (Conference Paper)
- 18. S. Saravanavel, K. Vijayakumar, D. Srinivasan and **M.Ravichandran**, Direct Steam Generation Using Solar Parabolic Dish Collector A Cost Effective Approach, International Journal of Mechanical Engineering and Technology (IJMET), 9(10) 2018, 102-110.
- 19. S. Saravanavel, A. Mohanakrishnan, K. Vijayakumar, **M. Ravichandran**, Performance Analysis of Single Basin Solar Distillation System With Various Wick Materials, International Journal of Mechanical Engineering and Technology (IJMET), 9 (10), 2018, 446–453.

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- 1. **M. Ravichandran** and S. Dineshkumar "Synthesis of Al-TiO₂ composite through liquid powder metallurgy route" SSRG International Journal of Mechanical Engineering (SSRG-IJME) 1:1 (2014) 12-17. ISSN: 2249-2593. (Conference Paper)
- 2. S.Sakthivelu, **M.Ravichandran**, M.Meignanamoorthy and M.Kumar "Effect of Machining Parameters on Surface Roughness and Material Removal Rate in CNC End Milling", International Journal of Scientific Research and Engineering Studies 2:4 (2015) 23-26. ISSN: 2349-8862.
- 3. M. Meignanamoorthy and **M.Ravichandran** "Experimental Investigations on Mechanical Properties of Hot Extruded Al -TiO₂ Gr Hybrid Composites", International Journal of Core Engineering & Management 1:12 (2015) 128-134. ISSN: 2348-9510.
- 4. M. Meignanamoorthy, S.Sakthivelu and **M.Ravichandran** "A Survey on Aluminium Metal Matrix Composites using Powder Metallurgy Technique", International Journal of Advanced Research Trends in Engineering and Technology 2:3 (2015) ISSN: 2348 8360.
- 5. **M. Ravichandran,** A. Naveen Sait and V. Anandakrishnan "Hot upset forging studies on Al-2.5% TiO₂-Gr hybrid powder metallurgy composite" Transactions of Powder Metallurgy Association of India, 40 (2) (2015) 43-49. (Conference Paper)
- 6. N.Sabarirajan, N.Rajakumar and **M. Ravichandran**, "Experimental Investigations on Mechanical Properties of AA 8050-TiC Metal Matrix Composite" International Journal of Applied Engineering Research -10:56 (2015) 383-387. (Conference Paper)
- 7. K. Kaviya, S. Saravanan, M. Ravichandran, P. Senthilkumar "Stress-Strain Analysis of AA6063-5 and 7.5 wt. % TiC Nano Composites" International Journal of Techno Chem Research, 2(2) (2016) 127-132.
- 8. S.Kathiravan, A.Naveen sait, **M.Ravichandran**, "Experimental Investigations on Stretchability of an Austentic Stainless Steel 316L" Iranian Journal of Material Forming, 3 (1) (2016) 55-64.
- 9. K. Ilayaraja, P.Ranjith Kumar, S. Sathish, **M.Ravichandran**, R. Ravikumar, V. Anandakrishnan, Multi-Objective Optimization of Electric Discharge Machining of Hybrid Copper Composite Using Taguchi Grey Relational Analysis, Journal of Advances in Chemistry, 13(1), (2016) 5923-5928.
- 10. **M.Ravichandran**, M. Meignanamoorthy, S.Sakthivelu "Optimization of Material Removal Rate in CNC Drilling of AA6063 using Taguchi Method", International Journal of Research in Advanced Technology IJORAT 1:9 (2016) 1-3. ISSN: 2348 8360.
- 11. **M. Ravichandran**, M.Meignanamoorthy, S.Dinesh Kumar "Microstructure and Properties of Hot Extruded Al-TiO2 powder metallurgic composites" Applied Mechanics and Materials, 852, (2016) 130-135. (Conference Paper)
- 12. **M.Ravichandran,** N.Sabarirajan, T.Sathish, S. Saravanan "Effect of Welding Parameters on Mechanical Properties of Plasma Transferred Arc Welded SS 202 Plates" Applied Mechanics and Materials, 852, (2016) 324-330. (Conference Paper)
- 13. **M.Ravichandran**, A.R. Manikandan, M.Omkumar "Investigations on properties of Al-B4C Composites Synthesized through powder metallurgy route" Applied Mechanics and Materials, 852, (2016) 93-97. (Conference Paper)

- 14. S. Saravanan, P.Senthil kumar, T. Palanisamy, **M. Ravichandran**, V. Anandakrishnan, S. Sankar, A.V. Balan, "Accelerated Short-Term Techniques to Evaluate Corrosion in TiC Reinforced AA6063 Composites" Journal of Advances in Chemistry, 13(10), (2017) 5905-5913.
- 15. S.V. Alagarsamy, **M. Ravichandran**, S.Vignesh, S. Arockia Vincent Sagayaraj, Multi-Performance Optimization of Wire Cut EDM Process Parameters on Surface Roughness of AA7075 / B₄C_p Metal Matrix Composites, International Journal on Future Revolution in Computer Science & Communication Engineering, ISSN: 2454-4248, 3(11) (2017) 74 79. (Conference Paper)
- 16. D.Pritima, P.Padmanabhan, **M.Ravichandran**, "Properties and bending behavior of Nickel coated Mild steel sheet" Journal of Advances in Chemistry, 13(11), (2017) 5991-5996.
- 17. S.Marichamy, M.Saravanan, **M. Ravichandran**, S. Nagarajan, and G. Veerappan "Artificial neural network model and Genetic algorithm based optimization during Electric discharge machining of α - β brass, Journal of Machining and Forming Technologies 8 (3-4) (2017) 89-101.
- 18. B. Stalin, **M. Ravichandran**, K. Sathiya Moorthi, C. Ramesh Kannan, Experimental investigations of stringer on chassis frame in TATA 2516 TC Truck, International Journal of Advanced Technology and Engineering Exploration, 5 (43) (2018) 118-123.
- 19. S.V. Alagarsamy, **M. Ravichandran**, P.Raveendran, K.Karthikeyan, H.Saravanan, Selection of end Milling Parameters on AA7075-15 Wt. % B4C Metal Matrix Composites, International Journal of Techno Chem Research, 04 (2) (2018) 117-124.
- 20. B. Stalin, J. Varun Siddharth, G. Senthilkumar, M. Ravichandran, Topological enhancement of split AC condenser brackets through CAE, International Journal of Advanced Technology and Engineering Exploration, 5 (47) (2018) 362-368.
- 21. B. Stalin, J. Varun Siddharth, G. Senthilkumar, M. Ravichandran, Experimental investigation and Taguchi optimization of turning process parameters for glass fiber reinforced plastics (GFRP), International Journal of Advanced Technology and Engineering Exploration, 5 (47) (2018) 394-399.

II) BOOK CHAPTER: 02

- 1. Dr. A. Naveen Sait and **M. Ravichandran**, Proceedings of Recent Advances in Manufacturing and Materials" 2011, Excel Publishers, New Delhi, India (ISBN 93-80697-98-8).
- 2. **M.Ravichandran,** V. Anandakrishnan, M.Duraiselvam, Alokesh Pramanik, Recent Issues in Materials and Manufacturing, Special Issue in Advances in Mechanical Engineering, Sage Publications, Volume (8), 2016.

TEXT BOOKS: 04

1. Dr. A. Naveen Sait and **Dr. M. Ravichandran**, (2015) Text Book of Manufacturing Technology-II, Sri Krishna Hi-Tech Publishing Company Pvt. Ltd- Chennai. (ISBN 978-93-80659-73-2)

- 2. Dr. A. Naveen Sait, **Dr. M. Ravichandran** and N.Sabarirajan, (2015) Text Book of Manufacturing Technology-I, Sri Krishna Hi-Tech Publishing Company Pvt. Ltd-Chennai. (ISBN 978-93-85364 -18-1)
- 3. Dr. A. Naveen Sait, **Dr. M. Ravichandran** and S. Dinesh Kumar, (2017) Text Book of Unconventional Machining Processes, Maruthi Publishers- Chennai. (ISBN 978-93-80757-01-8)
- 4. Dr. S. Saravanan, Dr.B.Stalin, Dr. **M. Ravichandran** and Dr.S.Sankar, (2018) Fundamentals of Nanoscience, Arunai Publications- Thiruvannamalai. (ISBN 978-81-938294-0-0)

III) INTERNATIONAL CONFERENCE: 30

International Conferences

- 1. **M. Ravichandran,** A. Naveen Sait and V. Anandakrishnan "Hot upset forging studies on Al-2.5%TiO₂-Gr hybrid powder metallurgy composite" International Conference on Powder Metallurgy and Particulate Materials, Powder Metallurgy Association of India Mumbai, (23–25 Jan, 2014) Chennai pp.55. Transactions of Powder Metallurgy Association of India, 40 (2) (2015) 43-49.
- 2. **M. Ravichandran** and S. Dineshkumar "Synthesis of Al-TiO₂ composite through liquid powder metallurgy route" Intercontinental Conference on Innovations in Science, Engineering, Technology and Management (ICISETM-2014), Powai Engineering College, Namakkal. pp. 175-177. SSRG International Journal of Mechanical Engineering (SSRG-IJME) 1:1 (2014) 12-17. ISSN: 2249-2593.
- 3. **M. Ravichandran** and G. Hariharasuthan "Evaluation of mechanical properties of chicken feather/ natural fiber reinforced polyester hybrid composite" Intercontinental Conference on Innovations in Science, Engineering, Technology and Management (ICISETM-2014) Powai Engineering College, Namakkal. pp.17. Abstract
- 4. **M. Ravichandran** and M. Thirunavukkarasu "Experimental Investigations on friction stir welding of AA7075" Intercontinental Conference on Emerging and Recent Technology (ICERT 2015), Sri Raja Rajan College of Engineering and Technology, Karaikudi, 31st January 2015.
- 5. **M. Ravichandran** and A.Naveen Sait "Synthesis of aluminium matrix composites through powder metallurgy" Intercontinental Conference on Engineering and Applied Sciences (ICEAS 2015), Vetri Vinayaha College of Engineering and Technology, Thottiyam, 28th February 2015.
- 6. M.Meignanamoorthy, A.Naveen Sait and M. Ravichandran, "Assessment of Mechanical Properties and Microstructure of Hot Extruded Aluminium Composites (Al-TiO₂-Gr)" Intercontinental conference on Technological Developments in Engineering "ICTDE-15", Chendhuran College of Engineering & Technology, Pudukkottai, 9th & 10th April 2015. ISBN: 978-93-80624-99-0, pp 379-382.
- 7. M. Thirunavukkarasu, K.Ramasamy and M. Ravichandran, "Experimental Investigations on Friction Stir Welding of AA7075" Intercontinental conference on Technological Developments in Engineering "ICTDE-15", Chendhuran College of

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- 9. R.Ashokkumar, **M. Ravichandran**, A.Naveen Sait "Optimization of Quality Characteristics in CNC Turning Process of GFRP Rod by Using Taguchi's Method" Intercontinental conference on Technological Developments in Engineering "ICTDE-15", Chendhuran College of Engineering & Technology, Pudukkottai, 9th & 10th April 2015. ISBN: 978-93-80624-99-0, pp 427-429.
- 10. S.Tamil Vendan, R.Narayanan and **M. Ravichandran**, "Properties and Microstructure Analysis of Al-TiC-Gr Composites" Intercontinental conference on Technological Developments in Engineering "ICTDE-15", Chendhuran College of Engineering & Technology, Pudukkottai, 9th & 10th April 2015. ISBN: 978-93-80624-99-0, pp 390-392.
- 11. S.Saravanan, P.Senthilkumar and M. Ravichandran, "Experimental Investigations on Microstructure and Mechanical Properties of AA6063 & AA6063-5%TiC Composites" Intercontinental conference on Advances in Mechanical Engineering "ICAME-2015", University College of Engineering, Villupuram, 15th & 16th October 2015. ISBN 978-93-85477-29-4, pp 608-611.
- 12. S.Saravanan, P.Senthilkumar and **M. Ravichandran**, K.Kaviya "Microstructure and Stress-Strain Analysis of AA6063-5&7.5wt.%TiC Nano Composites" International Conference on Recent Advancements in Materials (ICRAM-15), Anna University BIT Campus-Tiruchirappalli, 16th & 17th October 2015. Journal of Chemical and Pharmaceutical Sciences -11 (2015) 39-42.
- 13. **M. Ravichandran** and P.P.Shantharaman, "Synthesis of chicken feather/sisal reinforced polyester hybrid composite through compression molding technique" International conference on Emerging Trends in Engineering, Technology and Science "ICETETS 2016", Kings College of Engineering, Thanjavur, 24-26 February 2016. 978-1-4673-6725-7/16/\$31.00 ©2016 IEEE, pp 833-837.
- 14. R.Balaji and **M. Ravichandran**, "Numerical investigation of flow field in an convergent divergent nozzle using computational fluid dynamic analysis" International conference on Emerging Trends in Engineering, Technology and Science "ICETETS 2016", Kings College of Engineering, Thanjavur, 24-26 February 2016. 978-1-4673-6725-7/16/\$31.00 ©2016 IEEE, pp 838-844.
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- 16. L.Rubaraj, M.Meignanamoorthy, S.Sakthivelu, **M.Ravichandran** "Optimization of material removal rate in CNC drilling of AA6063 using Taguchi method, International Conference on "Futuristic Innovations in Mechanical Engineering and Manufacturing Management" M.Kumarasamy College of Engineering, Karur, 30th-31st March 2016.

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- 17. **M. Ravichandran**, M.Meignanamoorthy, S.Dinesh Kumar "Microstructure and Properties of Hot Extruded Al-TiO2 powder metallurgic composites" International Conference on Mechanical Engineering Design (ICMED2016), SSN College of Engineering, Chennai, 25-26 April 2016. AB16547, pp 41. (Proceedings Abstract) Applied Mechanics and Materials, 852, (2016) 130-135.
- 18. **M.Ravichandran,** N.Sabarirajan, T.Sathish, S. Saravanan "Effect of Welding Parameters on Mechanical Properties of Plasma Transferred Arc Welded SS 202 Plates" International Conference on Mechanical Engineering Design (ICMED2016), SSN College of Engineering, Chennai, 25-26 April 2016. AB16613, pp 69. (Proceedings Abstract) Applied Mechanics and Materials, 852, (2016) 324-330.
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- 20. S.V. Alagarsamy, **M. Ravichandran**, S.Vignesh, S. Arockia Vincent Sagayaraj, Multi-Performance Optimization of Wire Cut EDM Process Parameters on Surface Roughness of AA7075 / B₄C_p Metal Matrix Composites, International Conference on Renewable Energy and Materials for Sustainability (ICREMS 2016), Noorul Islam University, Nagercoil. International Journal on Future Revolution in Computer Science & Communication Engineering, ISSN: 2454-4248, 3(11) (2017) 74 79.
- 21. D.Pritima, P.Padmanabhan, **M.Ravichandran**, "Influence of process parameters on springback behavior during air bending of Nickel coated Mild steel sheet" International Conference on Recent Advances in Mechanical Engineering ICRAMEK '17, Government College of Engineering, Salem-11, 2nd & 3rd March 2017.
- 22. V. Mohanavel, K. Rajan, **M. Ravichandran**, C. Jayasekar, S. Suresh Kumar, Physical, mechanical and tribological behaviour of dual particles reinforced metal matrix composites, Proceedings of International Conference on Recent Advances In Mechanical Engineering, Kingston Engineering College, Vellore. 1 & 2 September 2017, pp. 231-233. (Full paper Proceeding).
- 23. B.Stalin, **M.Ravichandran**, S. Arivukkarasan, V. Dhanalakshmi, V. Mohanavel, Weight loss corrosion studies of aluminium-LM4 reinforced with alumina silicate (Al₂O₃SiO₂) particulates composites in Sodium Chloride (NaCl) solution, Proceedings of International Conference on Recent Advances In Mechanical Engineering, Kingston Engineering College, Vellore. 1 & 2 September 2017. Springer Note.
- 24. N. Dhakshinamurthy, V. Mohanavel, S. Suresh Kumar and M. Ravichandran, Failure Mode and Effects Analysis (FMEA) In Centrifugal Pump, Proceedings of International Conference on Recent Advances In Mechanical Engineering, Kingston Engineering College, Vellore. 1 & 2 September 2017, Pak. J. Biotechnol. Vol. 14 (2) 251- 256 (2017) Submitted.
- 25. V. Mohanavel, M. Ravichandran, P. Ganeshan, S. Suresh Kumar and M. Balamurugan, Experimental Investigation on Mechanical and Tribological Properties of SiC Particles Reinforced Aluminum Matrix Composites, Proceedings of International Conference on

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