RESUME

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EDUCATIONAL QUALIFICATION

Ph.D - Mechanical Engineering – 12th September 2014 –Anna University Chennai, Thesis: Experimental investigation on aluminium hybrid composites (Al-TiO_2-Gr) during cold upset forging.

M.Tech: Advanced Manufacturing - 9.23 CGPA (first class with distinction) - May 2007- SASTRA University, Tanjore. Project: Some studies on the structure and properties of sintered low alloy P/M steels containing copper, molybdenum and titanium.

B.E: Mechanical Engineering -78.0 % (first class) - April 2002- M.I.E.T Engineering College, Bharathidasan University, Tiruchirappalli. Project: Automation of cooling water regulation in billet casting machine.

EXPERIENCE DETAILS

Associate Professor, K.Ramakrishnan College of Engineering, Trichy, Tamil Nadu, India. 13-06-2018 to Till date.
Professor, Department of Mechanical Engineering, Chennai Institute of Technology, Kundrathur, Chennai. 18-12-2017 to 12-06-2018.
Professor and Head, Centre for Research, Department of Mechanical Engineering, Chendhuran College of Engineering and Technology, Pudukkottai, 18-11-2015 to 15-12-2017.
Associate Professor, Department of Mechanical Engineering, Kings College of Engineering, Pudukkottai, 15-04-2015 to 13-11-2015.
Assistant Professor & Head (03-05-2010 to 12-03-2014) Associate Professor & Head (12-03-2014 to 14-04-2015), Department of Mechanical Engineering, Chendhuran College of Engineering and Technology, Pudukkottai.
Lecturer, Department of Mechanical Engineering, PRIST University, Tanjore, 11-02-2009 to 30-04-2010.
Production Engineer, Solid Metal Industries (SMI), Global Metal Source (GMS), Chennai, 15-05-2007 to 30-01-2009.
Lecturer, Department of Mechanical Engineering, Sembodai RV Polytechnic College, Vedharanyam, 02-08-2004 to 27-05-2005.

Production Engineer Trainee, Rocket Fabrication Facility, Vikram Sarabhai Space Centre, ISRO, Trivandrum, 27-06-2003 to 26-06-2004.
Production Engineer, Shanthi Engineering (Sub Contractor to Bharat Heavy Electricals Limited) Thanjavur, 20-06-2002 to 25-06- 2003.

SUBJECTS TAUGHT

- Engineering Materials and Metallurgy
- Strength of Materials
- Unconventional Machining Process
- Metrology and Measurement
- Mechatronics
- Engineering Thermodynamics
- Thermal Engineering
- Engineering Graphics
- Thermodynamics
- Manufacturing Technology I
- Manufacturing Technology II

RESEARCH INTEREST

- Metal Matrix Composites
- Powder Metallurgy
- Stir Casting Process
- Optimization Techniques
- Welding Technology
- Material Synthesis & Characterization
- Cold and hot forging process

RESEARCH CONTRIBUTION

Editorial

1. **M.Ravichandran**, V. Anandakrishnan, M.Duraiselvam, Alokesh Pramanik, Recent Issues in Materials and Manufacturing, Advances in Mechanical Engineering – Editorial, 9(12) (2017),1–2. DOI: 10.1177/1687814017743107.

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 & Design, Volume 31, Issue 1, January 2010, Pages 485-492. Impact Factor: 5.77 https://doi.org/10.1016/j.matdes.2009.06.048.
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– Volume 21, Issue 2, February 2014, Pages 181-189. Impact Factor: 1.221 https://doi.org/10.1007/s12613-014-0883-z.
3. **M. Ravichandran,** A.NaveenSait and V.Anandakrishnan "Effect of TiO2 in aluminum matrix on workability behavior of powder metallurgy composites during cold upsetting" International Journal of Materials Research – Volume 105, Issue 4, April 2014, Pages 358-364. Impact Factor: 0.851 https://doi.org/10.3139/146.111034.
4. **M. Ravichandran, A**. Naveen Sait and V. Anandakrishnan "Al–TiO_2–Gr powder metallurgy hybrid composites with cold upset forging" Rare Metals- Volume 33, Issue 6, December 2014, Pages 686–696. Impact Factor:1.785 https://doi.org/10.1007/s12598-014-0239-x.
5. **M. Ravichandran,** A.NaveenSait and V.Anandakrishnan "Densification and deformation studies on powder metallurgy Al–TiO2–Gr composite during cold upsetting" Journal of Materials Research – Volume 29, Issue 13, July 2014, Pages 1480-1487. Impact Factor:1.982 https://doi.org/10.1557/jmr.2014.143.
6. **M. Ravichandran,** A. Naveen Sait and V. Anandakrishnan "Workability studies on Al+2.5%TiO2+Gr powder metallurgy composites during cold upsetting" Materials Research - American Journal of Materials – Volume 17, Issue 6, November / December 2014, Pages 1489-1496. Impact Factor:0.39 http://dx.doi.org/10.1590/1516-1439.258713.

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 state conditions" Journal of Sandwich Structure and Materials – Volume 17, Issue 3, May 2015, Pages 278-294. Impact Factor: 5.015 https://doi.org/10.1177/1099636214565762.

8. Muthuraman Pandi Krishnan, Abdullah Naveen Sait and **Manickam Ravichandran** "Parametric optimization of seam welding of stainless steel (SS 304) sheets" Materials Testing –Volume 57, Issue 5, May 2015, Pages 463-467. Impact Factor: 0.573 https://doi.org/10.3139/120.110733.

9. **M. Ravichandran**and V. Anandakrishnan "Optimization of powder metallurgy parameters to attain maximum strength coefficient in Al–10 wt% MoO3 composite" Journal of Materials Research – Volume 30, Issue 15, August 2015, Pages 2380-2387. Impact Factor: 1.982 https://doi.org/10.1557/jmr.2015.211.

10. **M. Ravichandran,** VS.Vidhya and V. Anandakrishnan "Study of the Characteristics of Al+5wt. %TiO_2+6wt.%Gr hybrid P/M composite powders prepared by the process of ball milling" Materials Science**,** Volume 51, Issue 4, January 2016, Pages 589-598. Impact Factor:0.526 https://doi.org/10.1007/s11003-016-9880-x.

11. **Manickam Ravichandran,** Sundaram Dineshkumar "Experimental investigations on Al-TiO_2-Gr hybrid composites fabricated by stir casting", Materials Testing – Volume 58, Issue 3, March 2016, Pages 211-217. Impact Factor: 0.573 https://doi.org/10.3139/120.110839.

12. **Manickam Ravichandran,** Mokkaiya Thirunavukkarasu**,** Shanmugam Sathish and Veeramani Ananthakrishnan "Optimization of welding parameters to attain maximum strength in friction stir welded AA7075 joints" Materials Testing– Volume 58, Issue 3, March 2016, Pages 206-210. Impact Factor: 0.573 https://doi.org/10.3139/120.110838.

13. S.Marichamy, M.Saravanan, **M. Ravichandran,** G.Veerappan "Parametric optimization of electrical discharge machining process on α–β brass using grey relational analysis", Journal of Materials Research, Volume 31, Issue 16, August 2016, Pages 2531-2537. Impact Factor: 1.982 https://doi.org/10.1557/jmr.2016.213.

14. **M. Ravichandran** and V. Anandakrishnan "Hot Upset Studies on Sintered (Al–TiO2–Gr) Powder Metallurgy Hybrid Composite" Strength of Materials, Volume 48, Issue 3, May 2016, Pages 135-146. Impact Factor:0.376 https://doi.org/10.1007/s11223-016-9784-x.

15. S.Marichamy, M.Saravanan, **M. Ravichandran,** G Veerappan "Parametric optimization of EDM process on α-β Brass using Taguchi approach", Russian Journal of Non-Ferrous Metals, Volume 57, Issue 6, September 2016, Pages 586–598. Impact Factor:0.497 https://doi.org/10.3103/S1067821216060109.

16. V.Mohanavel, K.Rajan,**M.Ravichandran**, "Synthesis, characterization and properties of stir cast AA6351-Aluminium Nitride (AlN) composites" Journal of Materials Research, Volume 31, Issue 24, December 2016, Pages 3824-3831. Impact Factor: 1.982 https://doi.org/10.1557/jmr.2016.460.

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, Volume 32, Issue 3, February 2017, Pages 606-614. Impact Factor: 1.982 https://doi.org/10.1557/jmr.2016.503.

18. S. Arivukkarasan, V. Dhanalakshmi, B.Stalin, **M.Ravichandran**, "Mechanical and tribological behaviour of tungsten carbide reinforced aluminum LM4 matrix composites" Particulate Science and Technology – Volume 36, Issue 8, 2018, Pages 967-973. Impact Factor:1.424 https://doi.org/10.1080/02726351.2017.1331285.

19. Ilayaraja Karuppiah, Ranjith Kumar Poovaraj, Anandakrishnan Veeramani, Sathish Shanmugam, **Ravichandran Manickam** and Ravikumar Rangasamy, Synthesis, characterization and forming behavior of hybrid copper matrix composites produced using powder metallurgy" International Journal of Materials Research, Volume 108, Issue 7, July 2017, Pages 586-591. Impact Factor: 0.851 https://doi.org/10.3139/146.111510.

20. B. Stalin, G. T. Sudha, **M. Ravichandran** "Investigations on Characterization and Properties of Al-MoO_3 composites synthesized using Powder Metallurgy Technique, Silicon – Volume 10, Issue 6, April 2018, Pages 2663-2670. Impact Factor: 1.246 https://doi.org/10.1007/s12633-018-9803-6.

21. S.Dinesh Kumar and **M. Ravichandran**, "Synthesis, characterization and wire electric erosion behaviour of AA7178-10 wt. % ZrB_2 composite" Silicon- Volume 10, Issue 6, November 2018, Pages 2653-2662. Impact Factor: 1.246 https://doi.org/10.1007/s12633-018-9802-7.

22. B.Stalin, P.Rameshkumar, **M.Ravichandran**, S.Saravanan, Optimization of wear parameters and their relative effects on stir cast AA6063-Si_3N_4 Composite, Materials Research Express, Volume 5, August 2018, 106502. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/aad99c.

23. 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 – Volume 5, August 2018, 106518. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/aadab7.

24. Sundaram Dinesh Kumar and **Manickam Ravichandran,** "Synthesis, properties and EDM behavior of 10 wt.-% ZrB2 reinforced AA7178 matrix composites" Materials Testing, Volume 60, Issue 9, September 2018, Pages 877-884. Impact Factor: 0.573 https://doi.org/10.3139/120.111226.

25. M.Meignanamoorthy**, M.Ravichandran**, Synthesis, properties and microstructure of sintered and hot extruded boron carbide reinforced AA8079 (Al-Cu-Fe-Si-Zn) matrix composites– Materials Research Express, Volume 5, Issue 11, September 2018, 116508. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/aadc57.

26. Balasubramaniam Stalin, Nagaraj Nagaprasad, Venkataraman Vignesh, **Manickam Ravichandran,** Evaluation of mechanical and thermal properties of tamarind seed filler reinforced vinyl ester composites, Journal of Vinyl and Additive Technology, Volume 25, Special Issue 2, January 2019, Pages 114-128. Impact Factor: 1.131 https://doi.org/10.1002/vnl.21701.

27. M. Vivekanandan, R.Venkatesh, T.Sathish, S.Dinesh, **M.Ravichandran**,V.Vijayan, Pressure Vessel Design using PV-ELITE Software with Manual Calculations and Validation by FEM, Journal of Engineering Technology, Volume 8, Issue 1, January 2019, Pages 425-433. ISSN. 0747-9964.

28. D.Srinivasan, M.Meignanamoorthy**, M.Ravichandran**, Optimization of process parameters of boron carbide filled Aluminium matrix composites using Grey Taguchi method – Materials Research Express, Volume 06, April 2019, 076504. Pages 1-16. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab11f9.

29. S.V.Alagarsamy, **M.Ravichandran**, Synthesis, Microstructure and Properties of TiO2 Reinforced AA7075 Matrix Composites via Stir Casting Route – Materials Research Express, Volume 06, May 2019, 086519. Pages 1-15. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab1d3b.

30. V. Mohanavel, **M. Ravichandran**, Experimental investigation on mechanical properties of AA7075-AlN composites, Materials Testing, Volume 61, Issue 6, June 2019, Pages 554-558. Impact Factor: 0.573 https://doi.org/10.3139/120.111354.

31. GT Sudha, B Stalin and **M.Ravichandran**, Optimization of powder metallurgy parameters to obtain low corrosion rate and high compressive strength in Al-MoO3 composites using SN ratio and ANOVA analysis, Materials Research Express, Volume 6, July 2019, 096520. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab2cef.

32. Meiyanathan Meignanamoorthy, **Manickam Ravichandran**, Vinoth Sundar Vidhya and Veeramani Anandakrishnan, Microstructure and properties of high strength Al-Fe-Cu-Si-Zn alloy (AA8079) produced by mechanical alloying and powder metallurgy, Materials Testing, Volume 61, Issue 7, July 2019, Pages 627-634. Impact Factor: 0.573 https://doi.org/10.3139/120.111364.

33. S.V.Alagarsamy, **M.Ravichandran**, Investigations on tribological behaviour of AA7075-TiO_2 composites under dry sliding conditions – Industrial Lubrication and Tribology, Volume 71, Issue 9, November 2019, Pages 1064-1071. Impact Factor: 1.03 https://doi.org/10.1108/ILT-01-2019-0003.

34. V. Mohanavel, **M. Ravichandran**, Influence of AlN particles on microstructure, mechanical and tribological behaviour in AA6351 aluminum alloy, Materials Research Express, Volume 6, August 2019, 106557. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab39b0.

35. B.Stalin, P.Ramesh Kumar, **M.Ravichandran**, M.Siva Kumar, M.Meignanamoorthy, Optimization of wear parameters using Taguchi grey relational analysis and ANN-TLBO algorithm for silicon nitride filled AA6063 matrix composites, Materials Research Express, Volume 6, August 2019, 106590. Pages 1-17. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab3d90.

36. B.Stalin**, M.Ravichandran**, V.Mohanavel, J.Praveen Raj, Investigations on microstructure and mechanical properties of Mg - 5 wt.% Cu-TiB_2 composites produced via powder metallurgy route, Journal of Mining and Metallurgy Section B, Volume 56, Issue 1, 2020, Pages 99-108, Impact Factor: 1.135 DOI: 10.2298/JMMB190315047S.

37. Jafrey Daniel James D, L Ganesh Babu, **Manickam Ravichandran**, Mechanical and Triboloical Characteristics of ZrO_2 reinforced Al2014 matrix composites produced via stir casting route, Materials Research Express, Volume 6, November 2019, 115542. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab4fc1.

38. G.Veerappan, **M.Ravichandran**, Experimental investigations on abrasive water jet machining of nickel- based superalloy, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Volume 41, Issue 528, November 2019, Pages 1-12. Impact Factor:1.743 https://doi.org/10.1007/s40430-019-2031-1.

39. S.V.Alagarsamy**, M.Ravichandran**, Parametric studies on dry sliding wear behaviour of Al-7075 alloy matrix composite using S/N ratio and ANOVA analysis, Materials Research Express, Volume xx, December 2019, Pages xx. Impact Factor: 1.449 https://doi.org/10.1088/2053-1591/ab654a.

40. Nagaraj Nagaprasad, Balasubramaniam Stalin, Venkataraman Vignesh, **Manickam Ravichandran**, Nagarajan Rajini, Sikiru Oluwarotimi Ismail**,** Effect of cellulosic filler loading on mechanical and thermal properties of date palm seed/vinyl ester composites, International Journal of Biological Macromolecules, Volume 147, 2020, Pages 53-66. Impact Factor: 4.77 https://doi.org/10.1016/j.ijbiomac.2019.11.247.

41. Anand Chairman, B.Thirumaran, S.P.Kumaresh Babu, **M.Ravichandran**, Two-body abrasive wear behavior of woven basalt fabric reinforced epoxy and polyester composites, Materials Research Express, Volume 07, Issue 03, 23 March 2020, Pages 035307. Impact Factor 1.448. https://doi.org/10.1088/2053-1591/ab7de9.

42. M.Meignanamoorthy, **M.Ravichandran**, Microstructure Analysis and Optimization of Parameters for Improved Properties in High Strength AA8079 (Al–Fe–Cu–Si–Zn), Physics of Metals and Metallography, Volume 121, Issue No. 4, May 2020, pp. 374–381. https://doi.org/10.1134/S0031918X20040092.

43. J. Vairamuthu, A. Senthil Kumar, B. Stalin, **M. Ravichandran**, Optimization of powder metallurgy parameters of TiC and B_4C reinforced aluminium composites by Taguchi method, Transactions of the Canadian Society for Mechanical Engineering, 11 June 2020. https://doi.org/10.1139/tcsme-2020-0091

44. B. Stalin, N. Nagaprasad, V. Vignesh, **M. Ravichandran**, Nagarajan Rajini, Sikiru Oluwarotimi Ismail, Faruq Mohammad, Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced vinyl ester composites, Carbohydrate Polymers, xx (2020) xx. https://doi.org/10.1016/j.carbpol.2020.116748.

45. S.V.Alagarsamy**,** V**.**Raveendran**, M.Ravichandran,** Investigation of Materials Removal Rate and Tool Wear Rate in Spark Erosion Machining of Al-Fe-Si Alloy Composite Using Taguchi

Coupled TOPSIS Approach, Silicon, Online Published July 2020. https://doi.org/10.1007/s12633-020-00596-x.

46. S.Saravanan, **M.Ravichandran**, A V Balan, Analysis of wear parameters for AA6063-TiC in-situ composites using Taguchi technique, Emerging Materials Research, Volume 9, Issue 3, September 2020, pp. 1-6 https://doi.org/10.1680/jemmr.19.00050.
47. G.Veerappan, **M.Ravichandran,** M.Meignanamoorthy, V.Mohanavel, Characterization and properties of Silicon Carbide reinforced Ni-10Co-5Cr (Superalloy) matrix composite produced via Powder Metallurgy Route, Silicon, Online Published 19 August 2020. https://doi.org/10.1007/s12633-020-00455-9.
48. S. Sakthivelu, P. P. Sethusundaram, **M. Ravichandran** & M. Meignanamoorthy, Experimental Investigation and Analysis of Properties and Dry Sliding Wear Behavior of Al -Fe-Si Alloy Matrix Composites, Silicon, Online Published 23 August 2020. https://doi.org/10.1007/s12633-020-00662-4.
49. B. Stalin, G.T. Sudha, C. Kailasanathan, **M. Ravichandran**, Effect of MoO3 ceramic oxide reinforcement particulates on the microstructure and corrosion behaviour of Al alloy composites processed by P/M route, Materials Today Communications 25 (2020) 101655. https://doi.org/10.1016/j.mtcomm.2020.101655.
50. Nagaraj Nagaprasad, Balasubramaniam Stalin, Venkataraman Vignesh, **Manickam Ravichandran**, Nagarajan Rajini, Sikiru Oluwarotimi Ismail, Applicability of cellulosic- based Polyalthia longigolia seed filler reinforced vinyl ester biocomposites on tribological performance, Polymer Composite, First published: 31 October 2020 https://doi.org/10.1002/pc.25865.
51. B.Stalin, **M. Ravichandran**, G.T.Sudha, A.Karthick, K. Soorya Prakash, A. Benjamin Asirdason, S.Saravanan, Effect of titanium diboride ceramic particles on mechanical and wear behaviour of Cu-10 wt.% W alloy composites processed by P/M route, Vacuum, Available online 4 November 2020, 109895. https://doi.org/10.1016/j.vacuum.2020.109895.

International Journals (Scopus Indexed)

1. S.Saravanan, **M.Ravichandran**, V.Balasubramaniyan, "Comparison Studies on Effect of Thermal Spray Coating in Internal Combustion Engine" Mechanics and Mechanical Engineering, Volume 20, Issue 1, February 2016, Pages 23–32.
2. **M. Ravichandran,** A. Naveen Sait, "Evaluation of Seam Welding Parameters of Stainless steel (SS 316) sheets using Taguchi Technique" Journal of Manufacturing Technology Research, Volume 7, Issue 3-4, 2015, Pages 175-186.
3. **M.Ravichandran**, S.Saravanan, V.Balasubramanian "Investigations on Erosion and Corrosion behavior of high-velocity oxy-fuel sprayed WC-Cr_3C_2-Ni coatings in AISI 1018 Steels" HTM Journal of Heat Treatment and Materials, Volume 71, Issue 4, August 2016, 163-169. https://doi.org/10.3139/105.110291.
4. **M. Ravichandran** "Optimization of current, voltage and powder feed rate on mechanical properties of plasma transferred arc welded SS 316 joints" HTM Journal of Metals and Materials – Volume 72, Issue 5, 2017, Pages 300-307. https://doi.org/10.3139/105.110332.
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, Volume 21, Issue 1, 2017, Pages 57-66.
6. 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 – Volume 21, Issue 2, 2017, Pages 207-216.
7. **M.Ravichandran**, A.Naveen Sait, U.Vignesh "Investigation on TIG welding parameters of 2205 duplex stainless steel" International Journal of Automotive and Mechanical Engineering – Volume 14, Issue 3, 2017, Pages 4518-4530. https://doi.org/10.15282/ijame.14.3.2017.10.0357.

8. M.Meignanamoorthy and **M.Ravichandran**, Synthesis of Metal Matrix Composites via Powder Metallurgy Route: A Review, Mechanics and Mechanical Engineering – Volume 22, Issue 1, 2018, Pages 65–75.

9. S. Sakthivelu, P. P. Sethusundaram, M. Meignanamoorthy, **M. Ravichandran**, Synthesis of Metal Matrix Composites through Stir Casting Process a Review, Mechanics and Mechanical Engineering – Volume 22, Issue 1, 2018, Pages 357–369.

10. A. Praveen Kumar, M.Meignanamoorthy & **M.Ravichandran**, Influence of Sintering Temperature and the amount of Reinforcement on the Microstructure and Properties of Al–TiO_2 Composites, International Journal of Mechanical Engineering and Technology (IJMET), Volume 9, Issue 9, September 2018, Pages 826-832.

11. 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, Volume 9, Issue 10, October 2018, Pages 102-110.

12. 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, Volume 9, Issue 10, October 2018, Pages 446–453.

13. S. Marichamy, **M. Ravichandran**, B.Stalin, B. Sridhar Babu, Optimization of Abrasive Water Jet Machining Parameters for α-β brass using Taguchi Methodology, FME Transactions, Volume 47, Issue 01, 2019, Pages 116-121. https://doi.org/10.5937/fmet1901116M.

14. P.S. Senthil Kumar, S. Marichamy, B. Stalin, **M. Ravichandran**, K. Vinothbabu, Corrosion and Wear Properties on Synthesized Silicon Carbon Nanotubes, International Journal of Recent Technology and Engineering, Volume 8, Issue 1S2, May 2019, Pages 28-32.

15. V. Mohanavel, **M. Ravichandran**, T.Sathish, S. Suresh Kumar, M.M. Ravikumar, S. Mahendiran, L. Yeshwanth Nathan, Tribological and mechanical behaviour of composites fabricated via compo casting, stir casting and in situ casting – An overview, Journal of the Balkan Tribological Association, Volume 25, Issue 2, 2019, Pages 342-352.

16. S. Sakthivelu, M. Meignanamoorthy, **M. Ravichandran**, and P. P. Sethusundaram, Tribological Behavior of AA7050-ZrSiO4 Composites Synthesized by Stir Casting Technique, Mechanics and Mechanical Engineering, Volume 23, July 2019, Pages 198–201. https://doi.org/10.2478/mme-2019-0026.

17. M.Ramesh, Jafrey Daniel D**, M.Ravichandran**, Investigation on Mechanical Properties and Wear Behaviour of Titanium Diboride Reinforced Composites, FME Transactions, Volume 47, 2019, Pages 873-879 https://doi.org/10.5937/fmet1904873R.

18. V. Alagarsamy, **M. Ravichandran**, P. Raveendran, B. Stalin, Evaluation of micro hardness and optimization of dry sliding wear parameters on aa7075 (Al-Zn-Mg-Cu) matrix composites. Journal of the Balkan Tribological Association, Volume 25, Issue 3, 2019, Pages 730–742.

19. Mohanavel Vinayagam, **Manickam Ravichandran**, Srinivasan Suresh Kumar, S.Dinesh Kumar, M.Melwin Jegadeesh Sridhar, M.M.Pavithra, Microstructural and tribological characterization of Al/Egg shell ash composites prepared by liquid metallurgy process, Journal of the Balkan Tribological Association, Volume 26, Issue 2, May 2020, Pages 276-283.

20. B. Stalin, V. S. Vidhya, **M. Ravichandran**, A. Naresh Kumar, and G. T. Sudha, Characterization and Properties of Mg–TiO_2 Composites Produced via Ball Milling and Powder Metallurgy, Metallophysics and Advanced Technologies, Volume 42, Issue 4, July 2020, Pages 497–509. https://doi.org/10.15407/mfint.42.04.0497.

21. R.Naveenkumar, S.Rajaram, P.C.Santhosh Kumar, S.Divakaran, **M.Ravichandran**, V.Mohanavel, Experimental Analysis of Automatic Hot Air Vent-Out System in Vehicle Chamber Using Solar Energy, Journal of Critical Reviews, Vol 7, Issue 06, 2020, 1851-1857.

22. G.Sakthi Balan, **M.Ravichandran**, V.Santhosh Kumar, Study of Aging effect on mechanical properties of Prosopis juliflora fiber reinforced palm seed powder filled polymer composite,

Australian Journal of Mechanical Engineering, xx, 16 August 2020, 1-13, https://doi.org/10.1080/14484846.2020.1806194.

23. Alagarsamy S.V, **Ravichandran M** & Meignanamoorthy M, Multi-objective optimisation of dry sliding wear control parameters for stir casted AA7075 - TiO_2 composites using Taguchi-Grey relational approach, Australian Journal of Mechanical Engineering, xx, 6 September 2020, 1-11. https://doi.org/10.1080/14484846.2020.1815997.

International Journals (Others)

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73. P.C.Santhosh Kumar, K.Murugesan, **M.Ravichandran**, J. Manivasagan, K.Maharaja and H.Jegadeeshwaran, Wheelchair cum Stretcher for patients - Design and Fabrication, **AIP Conference Proceedings** 2283, 020130 (2020); https://doi.org/10.1063/5.0025031. Published Online: 29 October 2020

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77. H Ramakrishnan, G Sakthi balan, V Santhosh kumar, **M Ravichandran**, Mechanical, Microstructural evaluation and Optimisation of laser welded AISI 316l and Incoloy 825 (UNS SO8825) alloy, **AIP Conference Proceedings** 2283, 020136 (2020); https://doi.org/10.1063/5.0024937. Published Online: 29 October 2020

78. T. Vishnu Vardhan, B. Stalin, S. Marichamy, **M. Ravichandran**, J.Vairamuthu and V. Dhinakaran, Material Synthesis, Characterization and Machining Performance of Terbium Metal Matrix Composite, **AIP Conference Proceedings** 2283, 020140 (2020); https://doi.org/10.1063/5.0024969. Published Online: 29 October 2020

79. B.Stalin, **M.Ravichandran**, S.Marichamy, T.D.Choumya Devi, S.V.Alagarsamy and V.Dhinakaran, Friction Welding Parametric Optimization of AISI 310L Austenitic Stainless Steel Weld Joints - Grey Relational Investigation, **AIP Conference Proceedings** 2283, 020141 (2020); https://doi.org/10.1063/5.0024979. Published Online: 29 October 2020

DETAILS OF CONFERENCES/ WORKSHOPS / SYMPOSIUM ORGANIZED

International Conferences

1. Organized International Conference on Innovations in Engineering, Technology and Science (ICIETS-2019) as Co-Convener during 21t & 22 March 2019, K. Ramakrishnan College of Engineering, Trichy.

National Conferences

2. Organized 1st National Conference on Recent Advances in Manufacturing and Materials (RAMM '11) as Conference Co-Chair during 8th & 9th of April 2011, Chendhuran College of Engineering and Technology, Pudukkottai. Proceedings of the Conference were published by Excel Publishers, New Delhi with ISBN 93-80697-98-8.

National Seminar

1. Organized 1st National Seminar on Renewable Energy (NSRE'10) as Organizing Executive Member in PRIST University, Tanjore on 25th and 26th March 2009.

Workshops

1. Organized 1st One day workshop on "Optimization Techniques in Engineering and Management" as Organizing Committee Member in PRIST University, Thanjavur on 26th August 2009.

2. Organized one day awareness workshop on "National Programme for Technical Education (NPTEL)" as Coordinator in Chendhuran College of Engineering and Technology, Pudukkottai on 16th August 2013.

3. Organized awareness workshop on "National Programme for Technology Enhanced Learning (NPTEL)" as Convener in Kings College of Engineering, Pudukkottai on 24th April 2015.

4. Organized One day national workshop on "Composite Materials and Applications (CMA '15)" as Convener in Kings College of Engineering, Pudukkottai on 21st May 2015.

5. Organized ISME sponsored workshop on "Advanced Materials in Engineering" for member of ISME in Kings College of Engineering, Pudukkottai on 24th April 2015.

6. Organized "ISTE 18th National Students Annual Convention, Theme: Technology for Rural Development to Accomplish Vision India 2020" as Organizing Committee In-charge in Kings College of Engineering, Pudukkottai held on 30-31 October 2015.

7. Organized one day national level workshop on "The Art of Scientific Writing, How to Get Your Research Published (ASW '16)" as Convener in Chendhuran College of Engineering and Technology, Pudukkottai on 27th August 2016.

8. Organized one day national level workshop on "Processing of Composite Materials (PCM '19)" as Convener in K.Ramakrishnan College of Engineering, Trichy on 16th February 2019.
9. Organized Two day workshop as Convener on "Trobology of Green Composites (TGC 2020)" at K.Ramakrishnan College of Engineering, Trichy during 31 Jan and 1 Feb 2020.

Guest Lectures

1. Arranged guest lecture on "Powder Metallurgy- Composite Materials" at PRIST University, Thanjavur on 20th February 2010. Lecture delivered by: Dr.V.Anandakrishnan, Department of Production Engineering, National Institute of Technology, Tiruchirappalli.
2. Arranged guest lecture on "Recent Advances in Automobiles" at PRIST University, Thanjavur. Lecture delivered by: Dr.K.R.Balasubramanian, Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli.
3. Arranged guest lecture on "Effect of Process Parameters on Laser Welding of Titanium Alloys" at PRIST University, Thanjavur. Lecture delivered by: Dr.K.R.Balasubramanian, Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli.
4. Arranged guest lecture on "ISTE Students Annual Convention" at Kings College of Engineering, Thanjavur on 29th June 2015. Delivered by: Dr.N.Vetrivelan, Director, CUII, Periyar Maniammai University, Thanjavur.

Symposiums

1. Organized 1st National Level Technical Symposium (TORSION '11) as Convener in Chendhuran College of Engineering and Technology, Pudukkottai on 23rd March 2011.
2. Organized 2nd National Level Technical Symposium (CHAKRAVUYE '12) as Coordinator in Chendhuran College of Engineering and Technology, Pudukkottai on 8th & 9th March 2012.
3. Organized 3rd National Level Technical Symposium (CHENXPLORE '13) as Coordinator in Chendhuran College of Engineering and Technology, Pudukkottai on 14th & 15th March 2013.
4. Organized 4th National Level Technical Symposium (TORSION '14) as Convener in Chendhuran College of Engineering and Technology, Pudukkottai on 11th March 2014.
5. Organized 6th National Level Technical Symposium (TORSION '16) as Co-Convener in Chendhuran College of Engineering and Technology, Pudukkottai on 16th March 2016.
6. Organized 7th National Level Technical Symposium (TORSION '17) as Co-Convener in Chendhuran College of Engineering and Technology, Pudukkottai on 24th March 2017.

OUTREACH ACTIVITIES

Advisory / Technical Committee Member

1. International Conference on Advanced Light-weight Materials and Structures ICALMS-2K20 6th & 7th March, 2020, organized by Department of Mechanical Engineering. CMR Technical Campus, Hyderabad
2. International Conference on Advances in Manufacturing Technology (ICAMT 18), Chennai Institute of Technology, Chennai, 22-23 June 2018
3. Invited Speaker - International Conference of Applications of Nano Technology (ICANN 19)" organized by Department of Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnaduon 18th and 19th March 2019
4. Advisory Committee Member, National Conference On Advancements In Mechanical And Manufacturing Engineering (NCAMME' 19)" organized by Department of Mechanical Engineering, Mother Terasa College of Engineering and Technology on 16th March 2019.
5. Advisory Committee Member, National Conference on Energy and Manufacturing Scenario – 2020, "NCEMS – 2020" 28th March 2020, Kings College of Engineering, Thanjavur.

GUEST LECTURES DELIVERED

1. Delivered a lecture on "Ideal and Real Gasses" at St. Josephs's College of Engineering and Technology, Elopatti, Thanjavur on 14th October 2015.
2. Delivered a lecture on "Advanced Engineering Materials" to the members of Indian Society for Mechanical Engineers (ISME) at Kings College of Engineering, Punalkulam, Gandarvakottai (Tk), Pudukkottai (Dt) on 17st July 2015.

3. Delivered a lecture on "Recent Trends in Friction Stir Welding (FSW)" to the members of Indian Society for Mechanical Engineers (ISME) at Kings College of Engineering, Punalkulam, Gandarvakottai (Tk), Pudukkottai (Dt) on 11th February 2016.
4. Delivered lecture on National Accreditation and Assessment Council (NAAC) process at Chendhuran College of Engineering and Technology, Pudukkottai-622507 on 3rd August 2016.

INVITED TALK AT WORKSHOPS / CONFERENCES

1. Delivered a **Invited Talk** on "Composite Materials" in the One Day **Workshop** on Composite Materials at Vetri Vinayaha College of Engineering and Technology, Tholurpatti, Thottiam (Tk), Trichy (Dt) on 13th September 2013.
2. Delivered **Valedictory address** and **Invited Talk** on Powder Metallurgy in **National conference** on "Scenario in Mechanical Science (NCSMS-2K15)", Star Lion College of Engineering and Technology, Thanjavur, on 4th March 2015.
3. Delivered a **lecture** on "Aluminium metal matrix composites through Powder Metallurgy Route" in the One Day Workshop on Composite Materials and Applications at Kings College of Engineering, Punalkulam, Gandarvakottai (Tk), Pudukkottai (Dt) on 21st May 2015.
4. Delivered inaugural address and **invited lecture** on Recent Advances in Automobile Engineering during the inaorgauguration of Automobile Future Creative Association, at Arasu Engineering College, Kumbakonam on 6th September 2016
5. Delivered **lecture** on "Synthesis of Al-MoO_3 composites through Optimized powder metallurgy parameters" at The Institution of Engineers (India) - Tiruchirappalli Local Centre on 24th January 2017.
6. Delivered **lecture** on "Composites through powder metallurgy" for One day workshop on Composite Materials in Powder Metallurgy at KSK College of Engineering and Technology, Kumbakonam on 9th October 2018.
7. Delivered **invited talk** on "Development of E-waste Reinforced Composites for Automobile Applications using Powder Metallurgy Technique", 10th International Conference on Advancements in Polymeric Materials (APM-2019), Innovations in Polymeric Product Development and Manufacturing, January (22-24), 2019 at CIPET, Guindy, Chennai.
8. Delivered **lecture** on "Metal Matrix Composites Processing Routes" in one day workshop on "Processing of Composite Materials (PCM 19)" organized by Department of Mechanical Engineering, K.Ramakrishnan College of Engineering, Trichy on 16th February 2019.
9. Delivered **Invited talk** on "Synthesis of Nano - composite materials through powder metallurgy" in International Conference of Applications of Nano Technology (ICANN 19)" organized by Department of Nanoscience and Technology, Alagappa University, Karaikudi, Tamilnaduon 18th and 19th March 2019.
10. Delivered **Invited talk** on "Copper matrix composite materials through powder metallurgy" in "National Conference On Advancements In Mechanical And Manufacturing Engineering (NCAMME' 19)" organized by Department of Mechanical Engineering, Mother Terasa College of Engineering and Technology on 16th March 2019.
11. Delivered **Invited talk** on "Metal matrix composite materials through powder metallurgy" in "First International Conference on Recent Trends in Advanced Material Processing ICRTAMP 2019" organized by Department of Mechanical Engineering, Chennai Institute of Technology, Kundrathur during 20-21 March 2019.
12. Delivered lecture on "Processing of Composites using PM" in Two day workshop on "Trobology of Green Composites (TGC 2020)")" organized by Department of Mechanical Engineering, K.Ramakrishnan College of Engineering, Trichy during 31 Jan and 1 Feb 2020.

RESOURCE PERSON IN SYMPOSIUM, CONFERENCE AND WORKSHOP

1. Served as External **Jury** in the National Level Technical Symposium (MECHNOVATION'12) held at Shanmuganathan Engineering College, Pudukkottai on 20th & 21st September 2012.
2. Served as External **Jury** in the National Level Conference (MECHNOBOTZ'13) held at MNSK College of Engineering, Pudukkottai on 6th April 2013.
3. Served as **Technical session chair** in National conference on "Scenario in Mechanical Science (NCSMS-2K15)", Star Lion College of Engineering and Technology, Thanjavur, on 3rd & 4th March 2015.

4. Served as Internal **Jury** in the National Level Conference (IGNISALA2K15) held at Kings College of Engineering, Punalkulam, Gandarvakottai (Tk), Pudukkottai (Dt) on 18th September 2015.
5. Delivered Keynote address and served as a **Jury** for Paper Presentation during the inauguration of National Level Technical Symposium Mechnospark 18, at Mahath Amma Institute of Engineering and Technology, Pudukkottai on 15th March 2018.
6. Served as **Technical Session Chair** in 2nd International Conference on Materials, Manufacturing and Modelling (ICMMM2019) organized by School of Mechanical Engineering, VIT, Vellore during March 29th to 31st, 2019

MEMBERSHIP IN TECHNICAL SOCIETIES

- Life Member- 68045-2010: **Indian Society for Technical Education -ISTE**, Shaheed Jeet Singh Marg, Near Katwaria Sarai Opp. Sanskrit Vidyapeeth, New Delhi - 110 016.
- Life Member- 72209-2010: **Powder Metallurgy Association of India - PMAI**, B1002 Kingston, High Street, Hiranandani Complex, Powai, Mumbai – 400076
- Life Member- M-162817-2: **Institution of Engineers India (IEI)** – Kolkata, West Bengal, India.
- International Member- International Organization of Scientific Research and Development, Taiwan.
- Member-International Association of Engineers (IAENG) for Mechanical Engineering- Hong Kong.

EDITORIAL BOARD MEMBER / REVIEWERSHIP

Editor for International Journals

1. **Lead Guest Editor** - Recent Developments in Particle Reinforced Composite Materials - Advanced Composite Letters- Sage Publications - Impact Factor: 0.575. https://journals.sagepub.com/page/acm/collections/special-issues/particulate-reinforced-composite-materials.
2. **Lead Guest Editor** / Academic Editor - Recent Issues in Materials and Manufacturing - Advances in Mechanical Engineering - Sage Publications - Impact Factor:0.875. https://journals.sagepub.com/doi/pdf/10.1177/1687814017743107
3. Editorial Board Member, Special Issue, SN Applied Sciences, Springer Publications. (KRCE)

Reviewer for International Journals

1. Journal of Laser Technology- Elseveir
2. Materials and Design-Elseveir
3. Measurement- Elseveir
4. Journal of the Brazilian Society of Mechanical Sciences and Engineering-Springer
5. Journal of Mechanical Science and Technology (JMST)-Springer
6. International Journal of Metal Casting-Springer
7. Silicon-Springer
8. Part E: Journal of Process Mechanical Engineering -Sage
9. Materials Research Express - IOP Science
10. International Journal of Computer Aided Engineering and Technology - Inderscience
11. Industrial Ecology – An International Journal - Inderscience
12. International Journal of Design Engineering (IJDE) - Inderscience
13. International Journal of Shipping and Transport Logistics (IJSTL) - Inderscience
14. International Journal of Additive Manufacturing - Inderscience
15. International Journal of Manufacturing Technology and Management (IJMTM) - Inderscience
16. Materials Research - American Journal of Materials, Brazil
17. Materials Science Forum - Scientific.Net.
18. Journal of Advances in Chemistry - KHALSA
19. Journal of Advances in Mechanical Engineering and Science - DJ Publications
20. Journal of Technological Advances and Scientific Research - JTASR

Reviewer for Conferences

1. International Conference in Advances in Mechanical Engineering (ICAME- 2015)' organized by University College of Engineering, Villupuram on 15th& 16th October 2015.
2. ISTE 18th National Annual Students Convention organized by Kings College of Engineering & ISTE Delhi, Pudukkottai on 30th& 31st October 2015.
3. International conference on Emerging Trends in Engineering, Technology and Science "ICETETS 2016", Kings College of Engineering, Thanjavur, 24-26 February 2016.
4. International Conference on Recent Trends in Nanomaterials for Energy, Environmental and Engineering Applications, K.Ramakrishnan College of Technology, Trichy, 14-03-2019 & 15-03-2019
5. International Conference on Advanced Light-weight Materials and Structures ICALMS-2K20 6th & 7th March, 2020, organized by Department of Mechanical Engineering. CMR Technical Campus, Hyderabad.

Place: **(M.RAVICHANDRAN**)