

CURRICULAM VITAE



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Educational Degrees

Sl. No.	Degree	University/ Institution	Specialization
1	B.Tech	NIT, Trichy	Mechanical Engineering
2	M.E.	Anna University	Manufacturing Engineering
3	Ph.D.	JNTU, Hyderabad	Composites

Present Position

Vice Principal & Professor Mechanical Engineering Mohamed Sathak Engineering College Kilakkarai

Professional Experience

18 Years Teaching

Experience in Research

International Journals

1. **R.Senthilkumar** ,M. Prakash, N. Arun, A. Arul Jeyakumar. “Theeffect of the number of passes in friction stirrs processing of Aluminum alloy (AA6082) and its failure analysis.” **Applied Surface Science, (ELSEVIER) ISSN : 0169-4332 Scopus impact factor 6.7**

2. **R.Senthilkumar**, K Prabu, G Rajamurugan , P Ponnusamy
“Comparative analysis of particle size on the mechanical and metallurgical characteristics of Al₂O₃-reinforced sintered and extruded AA2014 nano-hybrid composite”, **Journal of Composite Materials (SAGE) ISSN : 0021-9983 Scopus impact factor 2.9**
3. **R. Senthilkumar**, N Arunkumar, M ManzoorHussian ,”A comparative study on low cycle fatigue behaviour of Nano and Micro Al₂O₃ reinforced AA2014 particulate hybrid composite”., **Results in physics. (ELSEVIER)**Vol. 5, 2015, 273-280(PP). **ISSN: 2211-3797 Scopus impact factor 5.3.**
4. A. John Presin Kumar K. Ramraji, K. Arunkumar, **R. Senthilkumar**, M. Rajesh”Mechanical and thermomechanical behaviour of agro-waste almond shell biochar filler interlaced chemically treated flax fibre vinyl ester composites” **Biomass Conversion and Biorefinery ISSN: 21906815, 21906823(Springer Nature) impact factor 4.05.**
5. Esakkiraj Esakki Sudalaimani & Arunkumar Karuppasamy Elangovan Kasi, **Senthilkumar Ramasamy**, Ramraji Kirubakaran, Rajesh MunusamyTensile, Dynamic Mechanical, and Vibration Behavior of Layering Sequence Design Effect of Glass Intertwined Natural Kenaf Woven Polymeric Laminates **Journal of Natural Fibers** Vol.21, 2024, 1-13(PP) **ISSN: 1544-0478 impact factor 3.507.**
6. **R Senthilkumar**, N Arunkumar, M ManzoorHussian,” Experimental investigation on mechanical properties of micro and nano size Al₂O₃ particle reinforced extruded composites”, **Rev. Téc. Ing. Univ. Zulia. Vol. 38, 2015,156 – 164(PP). ISSN: 0254-0770 Scopus impact factor 0.27.**
7. **R Senthilkumar**, P Ponnusamy, Prakash M” The Effect of TiB₂ on Mechanical and Microstructural Properties of AZ91 Matrix Composites Manufactured by Cold Chamber Die Casting Process” **SAE Technical Paper 2020-28-0425 <http://my.sae.org/library/>. ISSN:0148-7191**
8. M.SenthilKumar, R.V.Mangalaraja, **R.Senthilkumar**, L. Natrayan "Processing and Characterization of AA2024/ Al₂O₃//SiC Reinforces Hybrid Composites Using Squeeze Casting Technique" **Iranian Journal of Materials Science and Engineering ISSN: 1735-0808 Scopus impact factor 0.47**
9. Midthur A Salman Khan, C Nandakumar, B Mohan, **R Senthil Kumar** “Multi-Response Optimization Of Inconel 825 Process Parameters Using Ln₂ Cooled Zinc Coated Brass Wire In Cnc Wire-CutEDM” **Springer**

Nature Book Trends in Manufacturing Management. Springer ISBN: 978-981-15-4745-4 Scoups.

10. M.Muruganandam J.R.Jones Arunraj, M. Manikandan, **R. Senthilkumar** NUMERICAL INVESTIGATION OF FLOW SEPERATION DELAY OVER AN AIRFOIL BY CONTINUOUS BLOWING **Journal of Xidian University Vol. 18, ISSUE 4 2024, 1065-1079 (PP). ISSN: 1001-2400**
11. **R. Senthilkumar**, N Arunkumar, M ManzoorHussian,” Effects of Micro and Nano-Size Al₂O₃ Particle Reinforcement on Mechanical Behaviour of Extruded Aluminum Alloy Matrix Composite”. **Applied Mechanics and Materials. Vol. 787 (2015) 617-621(PP) ISSN:1662-7482.**
12. **R. Senthilkumar**, N Arunkumar, M ManzoorHussian, R Vijayaraj, “Study of Microstructure and Mechanical Properties of Sintered Aluminum Alloy Composite Reinforced with Al₂O₃ Nano Particles”. **Advanced Materials Research. Vol. 849, 2014, 62-68(PP). ISSN: 1662-8985.**
13. **R. Senthilkumar**, N Arunkumar, M ManzoorHussian, R Vijayaraj “Studies on mechanical properties and microstructure of Al₂O₃ Reinforced AA5083 Matrix Composite”. **Applied Mechanics and Materials Vols. 592-594 (2014) pp 749-754 ISSN:1662-7482.**
14. **R. SenthilKumar**, J Jabin, M ManzoorHussian, “CharacterisationOf Newly Developed Aluminium (A356) Based Nano Composite”. **International Journal of Advanced Research in Science and Engineering Volume 07, Special Issue 02 March 2018, pp 686-692. ISSN:2319-8354.**
15. G Ramesh, J Jabin, **R Senthil Kumar**, “Experimental Investigation On Mechanical Properties Of Flax Fiber Reinforced Composites With Epoxy”. **International Journal of Advanced Research in Science and Engineering Volume 07, Special Issue 02 March 2018, pp 694 - 701. ISSN:2319-8354.**
16. J .Jabin, V Vigneshwaran, GokulaChander, **R. Senthil Kumar**, “Experimental and numerical analysis of natural convection and radiation heat transfer in Array of stepped bar and hollow cylindrical heat sinks”.**International Journal of Advanced Research in Science and Engineering, Volume 07, Special Issue 02 March 2018, pp 702 - 713. ISSN:2319-8354.**
16. S.Deepak Kumar **R.Senthil Kumar** , A.Tamilselvan, G.Ramesh, “Problem selection methodology (psm) forAutomobile components manufacturing industryBy using hml& rankingmethod“ **AlochanaChakra**

Journal , Volume IX, Issue VI, June/2020 ISSNNO:2231-3990

17. V.Vigneshwaran K. Elangovan , G.Ramesh ,E. Dhiravidachelvi , **R.Senthilkumar** , A.Chockalingam , M. Muruganandam “Design and fabrication of on road real time e car utilize to testing and implement the self driving car using Ai technology” **Semiconductor Optoelectronics Volume 42, Issue1, pages 1194 -1202 ,2023 ISSNNO: 1001-5868**

18. Mr. L.Tharanikumar A Chockalingam, Dr. G.Ramesh, **Dr. R. Senthilkumar**, Dr.M.Muruganandam, Dr.E.Dhiravidaselvi, Mr. V.Vigneshwaran “Design And Fabrication Of Automatic Pneumatic Controlled Bar Feeding, Clamping And Cutting Attachment Using Arduino Microcontroller” **Journal of Purakala, Volume 32, Issue1, pages 694 - 701, 2023**

19. V.Vigneshwaran **Dr.R.Senthilkumar**, Dr.M.Prakash, Dr.M.Muruganandam, Dr.G.Ramesh “Evaluation of mechanical and microstructural properties of aluminium AA7075/TiB2 in –situ aluminium metal matrix composites” **Journal For Basic Sciences, Volume 23, Issue1, pages 316 -327, 2023 ISSN NO:**

20. Dr. P. Sathees Kumar & Muthuvel Arumugam Dr. E. Dhiravidachelvi , **Dr. R. Senthilkumar** “A Perspective Study on Pilgrimage Places and People’s Livelihoodness of Ramanathapuram District, Tamil Nadu” **International Journal of History and Research (IJHR), Volume 10, Issue2, pages 17 -26, 2022**

21. Dr. R. Senthilkumar, N. Sivashanmugam, N., Vigneshwaran, V., Ramesh, G., Vijayan “Studies on Stability and Thermal Conductivity of Nano Fluid Prepared from Multiwall Carbon Nanotubes Blended with Distilled Water” **Recent Advances in Materials Technologies, Volume 12, pages 978-981-19-3895, 2022**

LIST OF BOOK’S PUBLICATION

1. Engineering Graphics
2. Engineering Practices Lab

Member of Professional Bodies

- SAE
- ISHRAE
- IAENG