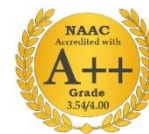





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	02	33	--	35	
Date of Joining the Institution	04.12.2023				
Area of Specialization	Manufacturing Engineering				
Courses taught	Manufacturing, Composite Materials, Unconventional Machining Processes				
Research Focus	Composite Materials				
Subject Competency	Unconventional Machining Processes				
No. of papers published	National Journals		International Journals		Conferences
	03		16		06
PG Specialization	Production Engineering				
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Details of Journal Publication:

1. K.Arun Prasath, **A.M.Shanawaz**, Y.Carlin Calaph, T.Raj Pradeesh, Ruby Celsia Arul Selvaraj, "Upcycled Nanomaterials from Wastewater Treatment for Active and Smart Packaging – A Review, Journal of Composites Engineering and Sustainability, Vol. 1, No. 1, 2025, pp. 3 – 13.
<https://www.icck.org/article/abs/jces.2025.447373>
2. Ganesh Karuppiyah, Thirukumaran Manoharan, **Shanawaz Abdul Kadar Mohamed**, Kailasanathan Chidambara Kutalam, Kumarasamay Yadhava Perumal, "Microstructure and physical characteristics of the interleaved modified non-woven Cocos nucifera composite:the impact of egg shell and MMT K10", *Biomass Conversion and Biorefinery*, (Springer), 22, June 2024,<http://doi.org/10.1007/s13399-024-05814-9>, <https://link.springer.com/article/10.1007/s13399-024-05814-9>, ISSN: 2190-6823 (SCI)
3. Y.Carlin Calaph, **A.M.Shanawaz**, PSP.Sankar Ganesh, , S.Kavitha, N.Gnanakumar, K.Arunprasath, "Optimization study of hybrid aluminium metal matrix composite using proposed Taguchi method" *Interactions*, (Springer), Vol. 245, 31st May 2024, Article: 95, <https://doi.org/10.1007/s10751-024-01923-z>
4. Y.Carlin Calaph, P.S.P.Sankar Ganesh, **A.M.Shanawaz**, S.Kavitha, C.Muthusamy, K.Arunprasath, "Analysing the impact of cutting parameters of CNC machining on EN8 steel with high strength carbide tool tip insert", *Interactions* (Springer), Vol. 245, 25th April 2024, Article 74, <https://doi.org/10.1007/s10751-024-01913-1> (<https://link.springer.com/article/10.1007/s10751-024-01913-1>) [Scopus]
5. Thirukumaran Manoharan, **Shanawaz Abdul Kadar Mohamed**, Kalimuthu Muthuvel, Sivasamy Paulsamy, Muthiah Athenamilagi & Pitchipoo Pandian, "Subsequent Welding of mild steel in the pipeline industry: mechanical, wear and microstructure characteristics", *Welding Internationals*, Taylor and Francis, Volume 38, Number 1, 2 January 2024, pp. 57-66(10) (<https://doi.org/10.1080/09507116.2023.2288099>) Published online:26 Nov2023.

6. M. Senthilkumar, Lavish Kumar Singh, S.Lakshmanan, **A.M.Shanawaz**, M.Selwin, "Study of the Effect on Friction Welded Surface on Copper Aluminium Juncture", *Key Engineering Materials*, Vol. 935, pp. 93 – 98, 30.11.2022 (ISSN: 1662 – 9795)
7. M.Vijayakumar, **A.M.Shanawaz**, N.Pranhu, K.Arunprasath, C. Ramesh, Midhun Mohan, "The influence of Cryogenic treatment on titanium alloys mechanical properties", *Materials Today: Proceedings*, (Elsevier) Vol. 66, Part 3, 2022, Pages 883 – 888. (<http://doi.org/10.1016/j.matpr.2022.04.513>)
8. R.Christu Paul, A.X.AmalRebin,R.Senthil Kumar, C.Ramesh, **A.M.Shanawaz**, D.Raja Joseph, "Computational Investigation of Low- Pressure Turbine Cascade In Lowreynolds Number Flows", *International Journal of Mechanical Engineering*, Vol. 7, No. 1, pp. 6288 – 6298, Jan 2022 (ISSN: 0974 – 5823)
9. A.Rajendra Prasad, V.Jaiganesh, S.SunilBabu, **A.M.Shanawaz**, T.VijayMuni, V.Venkatesh, Ram Subbiah, "Performance of Solar Still powered water recovery system from moist air", *Materials Today: Proceedings* (Elsevier), Volume 62, Part 4, 2022, Pages 1765-1769 <https://doi.org/10.1016/j.matpr.2021.12.336>
10. V.Subbian, K.KalidasaMurugavel, R.Satheesh Raja, **A.M.Shanawaz**, "Experimental investigation and the performance evaluation of a mixed mode solar dryer for coconut", *Materials Today: Proceedings* (Elsevier), Vol. 45 (2021) pp.3662 – 3665. (ISSN 2214: 7853)
11. **A.M.Shanawaz**, S.Sundaram, U.T.S.Pillai, P.BabuAurtherson, "An experimental study on 15% SiC_p reinforced 2124 Aluminium composite material by electrolytic in-process dressing grinding", *Iranian Journal of Science and Technology, Transaction B: Engineering*, Vol. 36, No. M2, pp. 181 – 192, Oct. 2012. (ISSN: 1028 – 6284), Impact factor – 0.55) - Annexure II
12. Babu Aurtherson.P, Sundaram.S, Sivapragash. M.,**Shanawaz. A.M.**, "Optimizing the process parameters of ELID grinding using Grey Relation Analysis", *Advances in Production Engineering & Management*, Vol. 7 (2012) 2, pp.113-122 (ISSN 1854-6250)
13. **A.M.Shanawaz**, S.Sundaram, U.T.S.Pillai, P.BabuAutherson, "Characteristics of Electrolysis In-process Dressing Grinding of Al/SiC_p Composite Materials", *Journal of Composite Materials*, Vol.45(3), 2011, pp. 357 – 367.(ISSN 0021:9983) (Impact factor:2.3) – Annexure I
14. P.BabuAurtherson, S.Sundaram, **A.M.Shanawaz**, M.Sivapragash, "Grinding Process on AlSiC composite material and Optimization of surface roughness by ANFIS", *International Journal of Engineering and Technology*, Vol. 3, No.4, pp: 425 -430, August 2011. (ISSN 2227: 524X) DOI:10.7763/IJET.2011.V3.264, https://www.researchgate.net/publication/272911793_Grinding_Process_on_AlSiC_composite_material_and_Optimization_of_surface_roughness_by_ANFIS
15. **A.M.Shanawaz**, S.Sundaram, U.T.S.Pillai, P.BabuAutherson, "Grinding of aluminium silicon carbide composite materials by electrolytic In-process dressing grinding", *The International Journal of Advanced Manufacturing Technology*, Vol. 57, 2011, pp. 143 – 150.(ISSN 0268:3768) (Impact factor:2.601) - Annexure I
16. P.BabuAurtherson, S.Sundaram, **A.M.Shanawaz**, S.PerumalSankar, "Optimization of ELID Grinding process of Al/SiC composite through Neuro-Fuzzy Network", *International*

17. P.BabuAurtherson, S.Sundaram, **A.M.Shanawaz**, M.Sivapragash, “Optimizing the process parameters of ELID grinding using neuro-fuzzy network”, *International Journal of Computer Science and Network Security*, Vol. 10 (11), 2010, pp. 188 – 193. (ISSN 1738:7906)
18. **A.M.Shanawaz**, S.Sundaram, U.T.S.Pillai, P.BabuAutherson, A comparison between conventional and ELID grinding of Al/SiC_p Composite Materials, *Journal of Emerging Technology in Mechanical Science and Engineering*, Vol. 1(2), 2010, pp. 75 – 82.
19. P.BabuAurtherson, S.Sundaram, M.Sivapragash, **A.M.Shanawaz**, Optimum selection of grinding conditions in ELID grinding using grey relation analysis, *Journal of Emerging Technology in Mechanical Science and Engineering*, Vol. 1(1), 2010, pp. 71 – 78.

Details of Conference attended:

1. **A.M.Shanawaz**, K. Arunprasath, Lavish Kumar Singh, P.Rajeswarann Biomimetic “Materials for Sustainable and Eco-Friendly Engineering Solutions”, International Conference on Engineering Horizons: Innovation, Advancements and Sustainable (ICON:EHIAS’25) organized by SRM Madurai College for Engineering and Technology during May 16 -17, 2025.
2. Ruby Celsia Arul Selvaraj, **A.M.Shanawaz**, PSP. Shankar Ganesh, S.Kavitha, K.Aruprasath, “The Role of Exopolysaccharides in Fermented Foods: Functions, Applications, and Health Benefits – A Technical Review” , International Conference on Interactive Design and Digital Manufacturing (ICCIDD<2K25) organized by School of Mechanical Engineering, SRM Institute of Science & Technology, Tiruchirappalli held during 11th & 12th April 2025.
3. **A.M.Shanawaz**, S.Sundaram, U.T.S.Pillai, P.BabuAutherson, A comparison between conventional and ELID grinding of Al/SiC_p composite materials, *Proceedings of International Conference on Recent Advances in Mechanical Engineering*, Noorul Islam University, Kumaracoil, 8-9, April 2010, pp. 276 – 208.
4. P.BabuAurtherson, S.Sundaram, M.Sivapragash, **A.M.Shanawaz**, Optimum selection of grinding conditions in ELID grinding using grey relation analysis, *Proceedings of International Conference on Recent Advances in Mechanical Engineering*, Noorul Islam University, Kumaracoil, 8-9, April 2010, pp. 357 – 362.
5. A.Pal Pandi, **A.M.Shanawaz**, R.Rajesh, Integration of TQM Lean Thinking, *Proceeding of National Conference on Advances in Mechanical Engineering in the ERA of Globalization*, Tagore Engineering College, Chennai, 2005.
6. A.Pal Pandi, S.M.Kannan, **A.M.Shanawaz**, An overview of Lean manufacturing Enterprises, *Proceedings of National Conference on Recent Trends in Manufacturing Modeling and Analysis*, St. Joseph’s College of Engineering, Chennai, 2004

Details of Book Chapter and Books Published:

1. Energy, Exergy, and Economic Analysis of Solar Stills – An Experimental Investigation. Notion Publication, ISBN -13 979-889233267-5, 2023

Details of Patents Filed and Granted:

1. Title of Invention: Evaluation of mechanical properties and stability of lignocellulosic briquettes.
Field of Invention: Mechanical Engineering
Application Number: 202241009462
Date of Filing: 22.02.2022
Publication Date (U/S 11A): 04.03.2022
2. Title of Invention: Mixed Fuel Supply System using compressed natural gas (CNG) and diesel as fuel for engine.
Field of Invention: Mechanical Engineering
Application Number: 202231018245
Date of Filing: 29.03.2022
Publication Date (U/S 11A): 22.04.2022
3. Title of Invention: Bio-Diesel production and method of its preparation and application with hydrogenation catalyst.
Field of Invention: Electrical
Application Number: 202241033597
Date of Filing: 11.06.2022
Publication Date (U/S 11A): 17.06.2022