


CURRICULUM VITAE

Personal Information		
Name	Dr. Madhu Puttegowda (Madhu P)	
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Department	Mechanical Engineering	
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Publications (73)
<ul style="list-style-type: none">• International Journals = 62 (SCIE = 47, Scopus = 09 & Peer reviewed = 06)• International Conference = 04 & National Conference = 01• Book = 01, Book Chapter = 09 (Scopus = 02) & Editorial Corner = 01 (Scopus)• Patents: 04 (Granted – 01 (Indian); 01 (UK Patent Registered); 02 (Indian Patent published)• Google Scholar Citations: 3664, h-index - 25 & i10 index = 40 (till September 6th, 2023)• Research Gate Stats: Citations = 3580, Research Interest Score = 2034, Recommendations = 1098 & Number of reads = 36567 (till August 21st, 2023)• Vidwan Score = 9.2

1. Research Area [Composite Materials]

- Composite Materials, Natural Fiber Composites, Natural Fibers, Bio-Composites, Polymer Matrix Composites, Mechanical testing of natural fiber composites

2. Educational Qualifications

1. **Ph.D.** (Composite Materials).**2020**, Visvesvaraya Technological University, Belagavi - 590 018, Karnataka, INDIA.

Thesis Title: Characterization and mechanical behaviour of natural/ synthetic hybrid composites for structural applications.

Thesis supervisor: Dr. S. Pradeep, Dept. of Mech. Engg., MCE, Hassan

2. **M.Tech.** (Product Design and Manufacturing), **2013**, The National Institute of Engineering, Mysuru, Karnataka, INDIA. [VTU, Belagavi]

Dissertation Title: Stress Analysis and Life Estimation of Gas Turbine Blisk for Different Materials of a Jet Engine.

Dissertation supervisor: Dr. L. Krishnamurthy, MED, NIE, Mysuru

3. **B.E.** in Mechanical Engineering, **2011**, Government Engineering College, K.R. Pet, Mandya, Karnataka, INDIA. [VTU, Belagavi]
4. **Diploma** in Mechanical Engineering, **2008**, Smt. L.V. Government Polytechnic, Hassan, Karnataka, INDIA.
5. **High School** (Karnataka Board), **2005**, Sri Aravinda High School, Hassan, Karnataka.

3. Subjects Taught

▪ Elements of Mechanical Engineering	▪ Engineering Drawing
▪ Manufacturing Science – I, II & III	▪ Non-Conventional Energy Sources
▪ Non-Traditional Machining	▪ Project Management
▪ Product Design and Manufacturing	▪ Geometric Dimensioning and Tolerancing
▪ Composite Materials	▪ Introduction to Python programming

4. Experiences

4.1 Teaching Experience

Designation	Department	Institute	Duration
Assistant Professor	Mechanical Engineering	Malnad College of Engineering, Hassan	August 2013 to till date

4.2 Administrative Experience

Assigned Post	Period
Department Seminar Co-Ordinator	August 2016 – July 2017
Department Timetable Officer	August 2017 – July 2018/August 2019 –July 2020
Department CIE Co-Ordinator	August 2019 – July 2019
Department Contineo Co-Ordinator	August 2017 to July 2023
Department Project Co-Ordinator	June 2020 to July 2023
Department R&D Committee	June 2020 to till date

Member	
College level Interdisciplinary Projects Committee Member	August 2022 to till date
IPR Activity Coordinator (IIC)	November 2022 to till date
Institutional Research Advisory Committee (IRAC)	August 2023 to till date

4.3 Organizational Experience

Short Term Course/ Conference/ Workshop

- **Co-Ordinator** for One-week online FDP on “Advanced Materials Technology”, Department of Mechanical Engineering, MCE Hassan. Duration: July1-5, 2020.
- **Organizing Committee Member** in the International Conference on Trends in Mechanical Engineering Sciences - 2020 (ICTMES-2020) on 6th and 7th August 2020 organized by Department of Mechanical Engineering Sciences at Malnad College of Engineering, Hassan.
- Workshop on “Being a Great Teacher”, Department of Mechanical Engineering, MCE Hassan. Duration: November 3-4, 2018. Role: **Organizing Committee Member**.
- **Organizing Committee Member** in the International Conference on Green Trends in Mechanical Engineering Sciences - 2018 (GTMES-2018) on 3rd to 5th October 2018 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan.
- **Organizing Committee Member** in Two-Day state level event on MCE LEARNATHON AND SUPERCODERS conducted on 1st & 2nd July 2018, organized by Malnad College of Engineering, Hassan under the sponsorship of TEQIP-III.
- **Organizing Committee Member** in the International Conference on Advances in Mechanical Sciences (ICAMS-2017) on 3rd to 5th May 2017 organized by Department of Mechanical Engineering at Malnad College of Engineering, Hassan.

5. Awards/ Fellowships/ Recognitions

5.1 Awards

1. Recognized by Stanford University’s list (published by Elsevier) of the World’s Top 2% of the Most-Cited Scientists in Single Year Citation Impact 2021.

2. Listed in AD Scientific Index Rankings (Ranked No. 1 MCE, Hassan) (Overall World Rankings in Mechanical Engineering – 265 Rank in India; 1327 Rank in Asia and 4029 Rank in World) (as of July 2023 updated Data)
3. Young Researcher Award - 2022 for the article *“A review on synthesis and characterization of commercially available natural fibers: Part-I”* from Institute of Scholars (InSc).
4. Young Researcher (RSL078) from Global Academicians & Researchers Network (RSquareL) for the article *“Characterization and properties of natural fiber polymer composites: A comprehensive review”*.
5. Top cited article 2020-21 *“A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization”* Polymer Composites, Wiley.
6. Top cited article 2021-22 *“A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization”* Polymer Composites, Wiley.
7. Top cited article 2021-22 *“Influence of nanofillers on biodegradable composites: A comprehensive review”* Polymer Composites, Wiley.

5.2 Fellowships

- Associate Research Fellow (External), CACM Research Centre. Universiti Teknologi Malaysia (UTM) (September 2021 to September 2023).

5.3 Editorial Board Member for Journals

- Editorial Board Member in Advancement in Mechanical Engineering and Technology (<http://hbrppublication.com/OJS/index.php/AMET/about/editorialTeam>)
- Review Editor on Editorial Board for Polymeric and Composite Materials - Frontiers in Materials (<https://www.frontiersin.org/journals/materials/editors>)
- Editorial Board Member in New Environmentally-Friendly Materials Journal (<https://ojs.bilpub.com/index.php/nefm/about/editorialTeam>)
- Editorial Board Member in Archives of Advanced Engineering Science (<https://ojs.bonviewpress.com/index.php/AAES/ebm>)
- Editorial Board Member in International Journal of Materials Science and Applications (<https://www.sciencepublishinggroup.com/journal/editorialboard?journalid=123>)
- Section Editor of Insight – Material Science (<https://insight.piscomed.com/s.php?jid=31>)

5.4 Editor of Special Issues

- “Trends and Developments in Natural Fiber Composites”, Applied Science and Engineering Progress (ASEP) (ISSN: 2672-9156, E-ISSN: 2673-0421) (ISSN 2296-8016) indexed in SCOPUS. <http://ojs.kmutnb.ac.th/index.php/ijst/pages/view/AboutTheJournal>

5.5 Reviewer of International Journals

Details: (<https://www.webofscience.com/wos/author/record/AAF-8444-2020>)

1. Journal of Cleaner Production, SCIE (Elsevier)
2. Archives of Computational Methods in Engineering, SCIE (Springer)
3. Biomass Conversion and Biorefinery, SCIE (Springer)
4. Journal of Nanomaterials, WOS (Hindawi)
5. Journal of Natural Fibers, SCIE (Taylor and Francis)
6. Composites Communications, SCIE (Elsevier)
7. Fibers and Polymers, SCIE (Springer)
8. Iranian Polymer Journal, SCIE (Springer)
9. Frontiers in Materials, SCIE
10. Silicon, SCIE (Springer)
11. e-Polymers, SCIE (De Gruyter)
12. Construction and Building Materials, SCIE (Elsevier)
13. Journal of Polymers and the Environment, SCIE (Springer)
14. Journal of Industrial Textiles, SCIE (Sage)
15. Polymer Composites, SCIE (Wiley)
16. International Journal of Industrial Chemistry, Scopus (Springer)
17. Current Research in Green and Sustainable Chemistry, Scopus (Elsevier)
18. Materials Today: Proceedings, Scopus (Elsevier)
19. Applied Science and Engineering Progress (Scopus)
20. Multiscale and Multidisciplinary Modeling, Experiments and Design, Scopus (Springer)
21. Polímeros, SciELO, Google Scholar (Associação Brasileira de Polímeros – ABPol)
22. SN Applied Sciences, Scopus (Springer)
23. The African Journal of Pure and Applied Chemistry, (Academic Journals)
24. BioResources, Scopus (NC State University, USA)

5.6 Reviewer/ Member of International Conference Proceedings

1. International Conference on “**Smart and Sustainable Developments in Materials, Manufacturing and Energy (SME - 2019)**”. Duration: May 23-24, 2019 at Dept. of Mechanical Engineering, N.M.A.M. Institute of Technology, Nitte, Karnataka, India.
2. International Conference on “**Trends in Mechanical Sciences (ICTMES 2020)**”. Duration: August 6-7, 2020, at Dept. of Mechanical Engineering Sciences, MCE, Hassan, Karnataka, India.
3. International Scientific Committee member in **International Symposium on Lightweight and Sustainable Polymeric Materials (LSPM’23)**, Feb 17, 2023, King Mongkut's University of Technology North Bangkok (KMUTNB), Bangkok, Thailand.

5.7 Reviewer of International book proposals

1. Springer Publication.
2. Elsevier Publication.

5.8 Membership of Professional Societies

1. **Life Member**, LM-99122 (2014) Indian Society for Technical Education (ISTE), New Delhi, India.
2. **Associate Member**, AMI58376-2 (2015) Institution of Engineers (IE), India.
3. **Member**, MIAENG-172340 (2015) International Association of Engineers (IAENG).
4. **Life Member**, M415090171 (2015) International Society for Research and Development (ISRDL). London Press, United Kingdom.
5. F-R Square L, **Fellow Life Member** of RSquareL (2022).
6. LMINSCL, **Life Member** of Institute of Scholars (2022).

6. Patents

6.1 Granted

1. **Indian Patent**: “Development of Hybrid Polymer Composites Reinforced with Prosopis Juliflora Bark Fibers, Phoenix Pusilla Leaf Fibers, Glass Fabrics and Carbon Fabrics”, Inventors: **Madhu P**, Sanjay M R, Pradeep S, H. Mohit, B. Yogesha and Suchart Siengchin.

Application Number – 202041000392 A, Patent Journal Number - 02/2020, Journal Date - 10/01/2020, Granted Date: 25/01/2023, **Status: Granted.**

6.2 Published

1. **Indian Patent:** “Development of Toolbox Material from Hybrid Composites Reinforced with NC, NDL, NK, GF and NP-MMC”, **Inventors:** H. Mohit, G. Hemanth Kumar, V. Arul Mozhi Selvan, Sanjay M R, Suchart Siengchin and **Madhu P.** **Application Number** – 201941045139 A, Patent Journal Number - 48/2019, Journal Date - 29/11/2019, **Status: Waiting for Examination.**
2. **Indian Patent:** “Device and System to Mend Polymer and Composite Sheets on Greenhouses and Polysheet Shadenet Structures”, **Inventors:** K Bindu Kumar, Surakasi Raviteja, Suresh C, Nekkanti Haripavan, **Madhu P** and L Nagarajan. **Application Number** – 202241044724 A, Patent Journal Number - 32/20220, Journal Date - 12/08/2022, **Status: Application published.**

7. Projects/ Research Grants

1. Experimental investigation on machining performance of cutting fluids derived from blended nonedible vegetable oil (*Awarded in November 2020, Ongoing*)
Funding agency: Vision Group on Science & Technology, Department of IT, BT and Science & Technology, Government of Karnataka.
Duration: 1 Year
Amount: Rs. 3,00,000/-
Principal Investigator: Dr. T. P. Jeevan; Co Investigator: Dr. Madhu P, MCE, Hassan
2. Investigation on Ballistic Mechanical Characteristics of Ramie-Hemp-Kevlar Based Vinyl Ester Hybrid Composites (2021-22) (*KSCST – Student Project (Rs. 7000/-) (45S_BE_0987) (Selected for State Level Seminar)*)
3. Irradiation Effect on Mechanical Properties of Flax Fabric Reinforced Polymer Composites for Spacecraft Application (2022-23) (*KSCST – Student Project (Rs. 8000/-) (46S_BE_0493)*)

8. List of publications

Book (1)

1. Rangappa, S. M., **Madhu P.**, Parameswaranpillai, J., Siengchin, S., & Gorbatyuk, S. (Eds.). (2021). *Advances in Bio-Based Fiber: Moving Towards a Green Society*. Elsevier.

Book Chapters (9)

1. **Madhu P.**, Rangappa, S. M., Jawaid, M., Shivanna, P., Basavegowda, Y., & Saba, N. (2018). Potential of natural/synthetic hybrid composites for aerospace applications. In *Sustainable composites for aerospace applications* (pp. 315-351). Woodhead Publishing. (**Scopus**)
2. **Madhu P.**, Thyavihalli Girijappa, Y. G., Mavinkere Rangappa, S., Parameswaranpillai, J., & Siengchin, S. (2020). Effect of Process Engineering on the Performance of Hybrid Fiber Composites. *Hybrid Fiber Composites: Materials, Manufacturing, Process Engineering*, 17-40. (**Scopus**).
3. Girijappa, Y. G., Ayyappan, V., **Madhu P.**, Rangappa, S. M., Parameswaranpillai, J., & Siengchin, S. (2020). *Plastics in Automotive Applications*. (**Elsevier**)
4. Jagadeesh, P., **Madhu P.**, Girijappa, Y. G. T., Rangappa, S. M., Gupta, M. K., & Siengchin, S. (2021). Mechanical, Electrical, and Thermal Behaviour of Additively Manufactured Thermoplastic Composites for High Performance Applications. In *Additive and Subtractive Manufacturing of Composites* (pp. 167-199). Springer, Singapore.
5. **Madhu, P.**, Praveenkumara, J., Sanjay, M. R., Siengchin, S., & Gorbatyuk, S. (2022). Introduction to bio-based fibers and their composites. In *Advances in Bio-Based Fiber* (pp. 1-20). Woodhead Publishing.
6. Rangappa, S. M., **Madhu P.**, Parameswaranpillai, J., Siengchin, S., Ozbakkaloglu, T., & Wang, H. (2022). Introduction to plant fibers and their composites. In *Plant Fibers, their Composites, and Applications* (pp. 1-24). Woodhead Publishing.
7. Sathyanarayana K, **Madhu P.**, Rangappa SM, Siengchin S, Shivanna P, Nagaraju SB, Somashekara MK, Girijashankar PB, Girijappa YG. Metallic lightweight materials: properties and their applications. In *Lightweight and Sustainable Composite Materials 2023 Jan 1* (pp. 47-67). Woodhead Publishing.
8. Nagaraju SB, Priya HC, Girijappa YG, **Madhu P.** Lightweight and sustainable materials for aerospace applications. In *Lightweight and Sustainable Composite Materials 2023 Jan 1* (pp. 157-178). Woodhead Publishing.

9. Jagadeesh P, **Madhu P.**, Girijappa YG, Sathyanarayana K, Rangappa SM, Siengchin S, Hassan SA. Lightweight and sustainable materials for structural applications. In *Lightweight and Sustainable Composite Materials 2023* Jan 1 (pp. 197-217). Woodhead Publishing.

Editorial Corner (1)

1. **Madhu P.**, Pulikkalparambil, H., & Rangappa, S. M. (2021). Trends and Developments in Natural Fiber Composites. *Applied Science and Engineering Progress*, 14(4), 543-552. (Scopus).

Journals (62)

1. Nagaraju SB, Somashekara MK, Govindaswamy PD, **Madhu P**, Girijashankar PB, Sathyanarayana K. Mechanical Characterization of B₄C-Gr Al2618 Based Composites Synthesized by Stir Casting Method. *Applied Science and Engineering Progress*. 2023 Aug 23;16(3):6579. (Scopus).
2. Sharath BN, Karthik S, **Madhu P**, Madhu KS, Pradeep DG. Predictive Analysis of Slurry Erosion Behaviour in Aluminium-Based Hybrid Metal Matrix Composites: Experimental and Machine Learning Approach. *Journal of Bio-and Tribo-Corrosion*. 2023 Dec; 9(4):70. (Scopus).
3. TG YG, Ballupete Nagaraju S, **Madhu P**, Verma A, Rangappa SM, Siengchin S. Biopolymer-Based Composites: An Eco-Friendly Alternative from Agricultural Waste Biomass. *Journal of Composites Science*. 2023 Jun 11;7(6):242. (WOS, IF: 3.3).
4. Bharath KN, **Madhu P**, Yashas Gowda TG, Arpitha GR, Pradeep S, Rangappa SM, Siengchin S. Development of banana fabric incorporated polymer composites for printed circuit board application. *Biomass Conversion and Biorefinery*. 2023 Apr 29:1-4. (SCIE, IF: 4.05).
5. Manjulaiah H, Dhanraj S, Basavegowda Y, Lamani LN, **Madhu P**, Rangappa SM, Siengchin S. A novel study on the development of sisal-jute fiber epoxy filler-based composites for brake pad application. *Biomass Conversion and Biorefinery*. 2023 Apr 25:1-3. (SCIE, IF: 4.05).
6. Jagadeesh P, **Madhu P**, Thyavihalli Girijappa YG, Shivanna P, Mavinkere Rangappa S, Siengchin S. Investigations on physical, mechanical, morphological and water absorption properties of ramie/hemp/kevlar reinforced vinyl ester hybrid composites. *Journal of Vinyl and Additive Technology*. 2023 Apr 24. (SCIE, IF: 2.297).

7. Sharath BN, Madhu KS, Pradeep DG, **Madhu P**, Premkumar BG, Karthik S. Effects of tertiary ceramic additives on the micro hardness and wear characteristics of Al₂O₃-Si₃N₄-B₄C-Gr hybrid composites for automotive applications. *Journal of Alloys and Metallurgical Systems*. 2023 May 31:100014.
8. Jagadeesh P, Rangappa SM, Suyambulingam I, Siengchin S, **Madhu P**, Binoj JS, Gorbatyuk S, Khan A, Doddamani M, Fiore V, Cuadrado MM. Drilling characteristics and properties analysis of fiber reinforced polymer composites: A comprehensive review. *Heliyon*. 2023 Mar 1. (SCIE, IF: 3.776).
9. Arpitha, G. R., Mohit, H., **Madhu, P.**, & Verma, A. (2023). Effect of sugarcane bagasse and alumina reinforcements on physical, mechanical, and thermal characteristics of epoxy composites using artificial neural networks and response surface methodology. *Biomass Conversion and Biorefinery*, 1-19. (SCIE, IF: 4.050).
10. Sharath, B.N., Madhu, K.S., Pradeep, D.G., **Madhu, P.**, Premkumar, B.G. and Karthik, S., 2023. Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine. *International Journal of Energy and Water Resources*, pp.1-7.
11. Ballupete Nagaraju, S., Kodigarahalli Somashekara, M., **Madhu P.**, Manjulaiah, H., Kini, C. R., & Channarayapattana Venkataramaiah, V. (2022). Effect of B₄C/Gr on Hardness and Wear Behavior of Al₂O₃ Based Hybrid Composites through Taguchi and Artificial Neural Network Analysis. *Catalysts*, 12(12), 1654. (SCIE, IF: 4.501).
12. Bharath KN, **Madhu P**, Mavinkere Rangappa S, Basavarajappa S, Siengchin S, Khan A, Gorbatyuk SM. Study of Treatment Effect on the Cocos Nucifera Lignocellulosic Fibers as Alternative for Polymer Composites. *Journal of Natural Fibers*. 2023 Apr 24;20(1):2134257. (SCIE, IF: 3.531).
13. Manimaran P, Vignesh V, Khan A, Pillai GP, Nagarajan KJ, Prithiviraj M, Al-Romaizan AN, Hussein MA, **Madhu P.**, Asiri AM. Extraction, and characterization of natural lignocellulosic fibres from Typha angustata grass. *International Journal of Biological Macromolecules*. 2022 Oct 2. (SCIE, IF: 8.025).
14. Patil, M., Rajamani, S. B., Mathad, S. N. M., Patil, A. Y., Hussain, M. A., Alorfii, H. S., & **Madhu P.**, (2022). Microwave-Assisted Synthesis of Poly (Acrylamide-co-2-Hydroxyethyl Methacrylate)/Chitosan Semi-IPN ZnO Nanocomposite Membranes for Food Packaging Applications. *Journal of Materials Research and Technology*. (SCI, IF: 6.267).

15. Jagadeesh, P., Mavinkere Rangappa, S., Siengchin, S., **Madhu P.**, Thiagamani, S. M. K., Hemath Kumar, M., & Moure Cuadrado, M. M. (2022). Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art. *Polymer Composites*. (SCIE, IF: 3.531).
16. Yashas Gowda, T. G., Vinod, A., **Madhu, P.**, Siengchin, S., & Jawaidd, M. Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites. *Polymer Composites*. (SCIE, IF: 3.531).
17. Yashas Gowda, T. G., Vinod, A., **Madhu, P.**, Sanjay, M. R., Siengchin, S., & Jawaidd, M. (2022). Areca/synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications. *Polymer Composites*. (SCIE, IF: 3.531).
18. Jagadeesh, P., **Madhu P.**, Rangappa, S. M., Alexey, K., Gorbatyuk, S., Khan, A., & Siengchin, S. (2022). A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications. *The International Journal of Advanced Manufacturing Technology*, 1-43. (SCIE, IF: 3.563).
19. Yashas Gowda, T. G., **Madhu, P.**, Kushvaha, V., Rangappa, S. M., & Siengchin, S. (2022). Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites. *Polymer Composites*. (SCIE, IF: 3.531).
20. Kangokar Mukesh, S., Bettagowda, N., Praveenkumara, J., Thyavihalli Girijappa, Y. G., **Madhu P.**, Mavinkere Rangappa, S., & Gorbatyuk, S. (2022). Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies. *Polymer Composites*, 43(6), 3782-3793. (SCIE, IF: 3.531).
21. Praveenkumara J, **Madhu P**, Pawinee Boonyasopon, Sanjay MR, Anish Khan, Suchart Siengchin. (2022). Recent developments and challenges in natural fiber composites: A review. *Polymer Composites*. (SCIE, IF: 3.531).
22. Sangeetha, P., Nageshwari, M., Kumari, C. R. T., Srividhya, S., Vinitha, G., Mathubala, G., & **Madhu P.**, (2022). Growth and Characterization of Second and Third Order Acentric Studies of l-Phenylalanine l-Phenylalaninium Malonate Single Crystal. *Crystals*, 12(6), 869. (SCIE, IF: 2.670).
23. Khan, A., **Madhu P.**, Jagadeesh, P., Marwani, H. M., Asiri, A. M., Manikandan, A., & Siengchin, S. (2022). Review on Nitride compounds and its polymer composites: A multifunctional material. *Journal of Materials Research and Technology*. (SCI, IF: 6.267).

24. Praveenkumara, J., **Madhu, P.**, Sanjay, M. R., & Siengchin, S. Role of Polymer Composites in Railway Sector: An Overview. *Applied Science and Engineering Progress*, 15(2), 1-8. (Scopus).
25. Bharath, K. N., **Madhu, P.**, Mavinkere Rangappa, S., Siengchin, S., Alexey, K., & Gorbatyuk, S. (2022). Waste coconut leaf sheath as reinforcement composite material with phenol-formaldehyde matrix. *Polymer Composites*, 43(4), 1985-1995. (SCIE, IF: 3.531).
26. Ajeesha, T. L., Manikandan, A., Ashwini, A., Jansi, S., Durka, M., Almessiere, M. A., **Madhu, P.**, & George, M. (2022). Structural investigation of Cu doped calcium ferrite ($\text{Ca}_{1-x}\text{Cu}_x\text{Fe}_2\text{O}_4$; $x = 0, 0.2, 0.4, 0.6, 0.8, 1$) nanomaterials prepared by co-precipitation method. *Journal of Materials Research and Technology*. (SCI, IF: 6.267).
27. Muthuppalani, M., Otaibi, A. A., Balasubramanian, S., Manikandan, S., Manimaran, P., Mathubala, G., **Madhu, P.**, & Rahman, M. M. (2022). Synthesis, Characterization and Bio-Potential Activities of Co (II) and Ni (II) Complexes with O and N Donor Mixed Ligands. *Crystals*, 12(3), 326. (SCIE, IF: 2.589).
28. Jagadeesh, P., **Madhu P.**, Oladijo, O. P., Lai, C. W., Gorbatyuk, S., Matykiewicz, D., & Siengchin, S. A comprehensive review on polymer composites in railway applications. *Polymer Composites*. (SCIE, IF: 3.531).
29. Patil, M., Mathad, S. N., Patil, A. Y., Arshad, M. N., Alorfi, H. S., **Madhu P.**, & Azum, N. (2022). Synthesis and Characterization of Microwave-Assisted Copolymer Membranes of Poly (vinyl alcohol)-g-starch-methacrylate and Their Evaluation for Gas Transport Properties. *Polymers*, 14(2), 350. (SCIE, IF: 4.967).
30. Ansari, A., Siddiqui, V. U., Akram, M., Siddiqi, W. A., Khan, A., Al-Romaizan, A. N., & **Madhu P.**, (2022). Synthesis of Atmospherically Stable Zero-Valent Iron Nanoparticles (nZVI) for the Efficient Catalytic Treatment of High-Strength Domestic Wastewater. *Catalysts*, 12(1), 26. (SCIE, IF: 4.501).
31. Jagadeesh, P., **Madhu P.**, Girijappa, Y. G. T., Rangappa, S. M., & Siengchin, S. (2022). Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties. *Polymer Composites*, 43(1), 160-172. (SCIE, IF: 3.531).
32. Kumari, C., Al Otaibi, A., Kamaraj, T., Nageshwari, M., Mathubala, G., Manikandan, A., **Madhu, P.**, & Asiri, A. M. (2021). A Brief Study on Optical and Mechanical Properties of

an Organic Material: Urea Glutaric Acid (2/1)-A Third Order Nonlinear Optical Single Crystal. *Crystals*, 11(10), 1239. (SCIE, IF: 2.670).

33. Kabeerdass, N., Al Otaibi, A., Rajendran, M., Manikandan, A., Kashmery, H. A., Rahman, M. M., **Madhu, P.**, & Mathanmohun, M. (2021). Bacillus-Mediated Silver Nanoparticle Synthesis and Its Antagonistic Activity against Bacterial and Fungal Pathogens. *Antibiotics*, 10(11), 1334. (SCIE, IF: 5.222).
34. Jagadeesh, P., **Madhu P.**, Mavinkere Rangappa, S., & Siengchin, S. (2021). A review on extraction, chemical treatment, characterization of natural fibers and its composites for potential applications. *Polymer Composites*, 42(12), 6239-6264. (SCIE, IF: 3.531).
35. Jagadeesh, P., **Madhu P.**, Mavinkere Rangappa, S., & Siengchin, S. (2021). Influence of nanofillers on biodegradable composites: A comprehensive review. *Polymer Composites*, 42(11), 5691-5711. (SCIE, IF: 3.531).
36. Sri, V. S. P. S., Manikandan, A., Mathankumar, M., Tamizhselvi, R., George, M., Murugaiah, K., **Madhu, P.**, & Asiri, A. M. (2021). Unveiling the photosensitive and magnetic properties of amorphous iron nanoparticles with its application towards decontamination of water and cancer treatment. *Journal of Materials Research and Technology*, 15, 99-118. (SCI, IF: 6.267).
37. **Madhu P.**, Rangappa, S. M., Khan, A., Al-Zahrani, S. A., Otaibi, A. A., Shivanna, P., & Siengchin, S. (2021). Effect of Layering Sequence on Impact Properties of Alkali Treated Phoenix Pusilla Fibers-Glass-Carbon Fabrics Reinforced Hybrid Composite Laminates. *Journal of Natural Fibers*, 1-11. (SCIE, IF: 3.507).
38. Jagadeesh, P., Ningappa, V. S. H., **Madhu P.**, Girijappa, Y. G. T., Rangappa, S. M., Khan, M. R., & Siengchin, S. (2021). Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics. *Polymer Composites*, 42(9), 4434-4447. (SCIE, IF: 3.531).
39. **Madhu, P.**, Bharath, K. N., Sanjay, M. R., Arpitha, G. R., & Saravanabavan, D. (2021). Effect of nano fillers on glass/silk fibers based reinforced polymer composites. *Materials Today: Proceedings*. (Scopus).
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44. Praveenkumara Jagadeesh, Yashas Gowda Thyavihalli Girijappa, **Madhu P.**, Sanjay Mavinkere Rangappa & Suchart Siengchin (2020) Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview, *Journal of Natural Fibers*, DOI: 10.1080/15440478.2020.1854145. (SCIE, IF: 3.507).
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51. **Madhu, P.**, Sanjay, M. R., Jawaid, M., Siengchin, S., Khan, A., & Pruncu, C. I. (2020). A new study on effect of various chemical treatments on Agave Americana fiber for composite reinforcement: Physico-chemical, thermal, mechanical and morphological properties. *Polymer Testing*, 85, 106437. (SCIE, IF: 4.931).
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56. **Madhu P**, Sanjay MR, Senthamaraikannan P, Pradeep S, Saravanakumar SS, Yogesha B. A review on synthesis and characterization of commercially available natural fibers: Part-I. *Journal of Natural Fibers*. 2019 Nov 17;16(8):1132-44. (SCIE, IF: 3.507).

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58. Praveenkumara, J., Sunder, R. N., Chandan, H. R., Srivathsa, M., & **Madhu, P.** (2017, December). Natural Fibers and Its Composites for Engineering Applications: An Overview. In *SARC International Conference, Chennai India*. (**Google Scholar**).
59. Gowda, T. Y., Sanjay, M. R., Bhat, K. S., **Madhu, P.**, Senthamaraikannan, P., & Yogesha, B. (2018). Polymer matrix-natural fiber composites: An overview. *Cogent Engineering*, 5(1), 1446667. (**Scopus**).
60. **Madhu, P.** (2016). Stress analysis and life estimation of gas turbine blisk for different materials of a jet engine. *International Journal of Science and Research*, 5(6), 1103-1107. (**Google Scholar**).
61. Praveenkumara J, **Madhu P**, Yashas Gowda TG, Pradeep S. Studies on mechanical properties of bamboo/carbon fiber reinforced epoxy hybrid composites filled with SiC particulates. *Int. J. Eng. Res. Gen. Sci.* 2018;6(5):1-9. (**Google Scholar**).
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Conferences

International Conferences

1. Kiran Kumar, Pradeep S, **Madhu P**, Jeevan T. P. “Experimental Investigation of SiC/ Al₂O₃ Reinforced Al 6082 Hybrid Metal Matrix Composites”, *International Conference on Trends in Mechanical Engineering Sciences (ICTMES-2020)*, August 6-7th 2020 at Malnad College of Engineering, Hassan.
2. **P. Madhu**, K. N. Bharath, M. R. Sanjay, G. R. Arpitha, D. Saravanabavan, “Effect of Nano Fillers on Glass/ Silk Fibers Based Reinforced Polymer Composites”, *International Conference on Advanced Trends in Mechanical & Aerospace Engineering (ATMA-2019)*, February 7-9th 2019 at Dayananda Sagar University, Bengaluru, Karnataka.
3. **P. Madhu**, M. R. Sanjay, S. Pradeep, Suchart Siengchin, “Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement”, *International*

Conference on Advances in Material and Manufacturing Engineering – 2019 (ICAMME-2019), March 15-17th 2019 at KIIT University, Bhubaneswar, Odisha.

4. Praveenkumara J, Sunderraj N, Chandan H R, Srivathsa Marathe, **Madhu P**, “Natural Fibers and Its Composites for Engineering Applications: An Overview” SARC International Conference on Mechanical and Production Engineering (ICMAPE – CHENNAI), December 3rd, 2017, at Chennai, India.

National Conferences

1. **P Madhu**, Sanjay M R, S Pradeep, B Yogesha, “Study on Tensile Behaviour of Century/Carbon Fiber Reinforced Polyester Based Composites” 14th State Level ISTE Student's Annual Convention and 5th National Conference on Emerging Trends in Engineering, Research and Management (NCETERM - 2017), 8th and 9th September 2017 at GM Institute of Technology, Davangere, Karnataka, India.

9. Certification Courses

1. Outcome Based Pedagogic Principles for Effective Teaching (NPTEL 4 Weeks Course). Conducted by IIT Kharagpur. Duration: August – September 2018.
2. Educational Leadership (NPTEL 8 Weeks Course). Conducted by IIT Kharagpur. Duration: July – September 2019.
3. Introduction to Composites (NPTEL 12 Weeks Course). Conducted by IIT Kanpur. Duration: September – December 2020.
4. Python for Data Science (NPTEL 4 Weeks Course). Conducted by IIT Madras. Duration: January - February 2023.
5. MATLAB Onramp (Self-paced learning course) by MathWorks.
6. Learn Python Basic to Advance in Easy Way 2022(Self-paced learning course) by Udemy.

10. Short Term Courses/ Workshops/ Webinars Attended

1. Rapid Prototyping and Manufacturing Technologies, Department of Mechanical Engineering, NIE, Mysore. Duration: November 12, 2011.
2. International Conference and Exhibition on “Additive Manufacturing Technologies”. Nimhans Convention Centre, Bangalore. Duration: August 27-28, 2012.
3. Empowering Teachers, Department of Industrial and Production Engineering, MCE Hassan. Duration: October 24-25, 2013.

4. Hydraulic, Pneumatic Systems in Industrial Automation, MCE-Bosch Rexroth, MCE, Hassan. Duration: November 27-29, 2014.
5. Analytical and Numerical Techniques in Applied Mathematics and Engineering, Department of Mathematics, MCE Hassan. Duration: July 28 to August 2, 2014.
6. Finite Element Analysis Using Ansys, Department of Mechanical Engineering, NIT Calicut. Duration: August 16-18, 2014.
7. Essentials Skills for Mechanical Engineers, Department of Mechanical Engineering, MCE Hassan. Duration: September 1-5, 2014.
8. Advances in Bio-Lubricants and Cutting Fluids, Department of Mechanical Engineering, MCE Hassan. Duration: December 8-12, 2014.
9. Materials Microstructure Characterization using Optical & Scanning Electron Microscopy, IIT Hyderabad. Duration: December 20-24, 2015.
10. Feel Teacher, MCE Hassan. Duration: June 6-11, 2016.
11. Realistic Approach to Wear Measurements and Mechanisms, Department of Mechanical Engineering, NMIT, Bangalore. Duration: September 19-21, 2016.
12. Virtual Laboratory, Department of E&C Engineering, MCE Hassan, Duration: February 16, 2017.
13. Technology Involved in Rapid Prototyping and Reverse Engineering, III Cell, MCE Hassan. Duration: February 20, 2017.
14. Emerging Trends in Materials and Manufacturing Technology, III Cell, MCE Hassan. Duration: February 27 to March 3, 2017.
15. Advanced Material Characterization Techniques, CMTI, Bengaluru. Duration: March 13-15, 2017.
16. Advances in Tribology and Surface Engineering, Department of Mechanical Engineering, MCE Hassan. Duration: March 20-21, 2017.
17. Research Methodology and Intellectual Property Rights, Department of Mechanical Engineering, MCE Hassan. Duration: March 23-25, 2017.
18. Advanced Materials & Manufacturing Technology, Department of Mechanical Engineering, RIT, Bangalore. Duration: December 4-16, 2017.
19. Challenges in Non-Conventional Energy Sources, Department of Automobile Engineering, MCE Hassan. Duration: April 9-13, 2018.

20. Total Quality Management, Department of Industrial and Production Engineering, MCE Hassan. Duration: May 28 – June 1, 2018.
21. Recent Trends in Automotive Technology, Department of Automobile Engineering, MCE Hassan. Duration: June 25-29, 2018.
22. Hands on Training Program for Mechanical Engineering Faculty Members on Thermo-Mechanical Simulator, Department of Metallurgical and Materials Engineering, IIT Roorkee. Duration: July 17-20, 2018.
23. Outcomes Based Education, MCE Hassan. Duration: August 4-5, 2018.
24. Being a Great Teacher, Department of Mechanical Engineering, MCE Hassan. Duration: November 3-4, 2018.
25. Lightweight Structures for Engineering Applications through Composites and Topology Optimization, GEC, Hassan. Duration: January 27 to February 7, 2020.
26. Tailor Made Nanomaterials for Applications in Sensors, LED's & Water Remediation, Department of Mechanical Engineering, ACS College of Engineering & RajaRajeswari College of Engineering, Bengaluru. Duration: June 5, 2020.
27. Advances in Automotive Engines, Department of Automobile Engineering & Department of Mechanical Engineering, Jain (Deemed to be University), Bengaluru. Duration: June 6, 2020
28. A Paradigm Shift in Management, Department of Mechanical Engineering, BITM, Ballari. Duration: June 16-20, 2020.
29. Advances in Machining Process, Department of Mechanical Engineering, PESITM, Shivamogga. Duration: June 17-19, 2020.
30. Composite Materials and its Characterizations, Department of Mechanical Engineering, AIT, Bengaluru. Duration: June 22-26, 2020.
31. Intellectual Property Rights and Innovations, East West Institute of Technology, Bengaluru. Duration: June 23-27, 2020.
32. Nuclear Energy: Myth v/s Reality, School of Mechanical Engineering, REVA University, Bengaluru. Duration: June 29, 2020.
33. Trends in Energy Conservation Technologies, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: July 6-11, 2020.

34. Advanced Technologies in Materials & Manufacturing Engineering, Department of Mechanical Engineering, Dayananda Sagar University School of Engineering, Bengaluru. Duration: July 6-11, 2020.
35. Advancements in Dynamic Analysis of Machine Elements, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: July 27-29, 2020.
36. Recent Advances & Trends in Mechanical Engineering & Material Science, Department of Mechanical Engineering, K. S. Institute of Technology, Bengaluru. Duration: July 27-31, 2020.
37. Challenges and Opportunities in Biocomposites, School of Automotive and Mechanical Engineering, Kalasalingam Academy of Research & Education, Tamilnadu. Duration: July 29, 2020.
38. Developments in Solar Energy Applications and Solar Tracking System, Departments of Mechanical and E & C Engineering, University BDT College of Engineering, Davanagere and Department of Mechanical Engineering, SDM Institute of Technology, Ujire. Duration: July 27 - 31, 2020.
39. Advanced Nano Materials, Nano Fabrication Techniques & Devices, Department of Mechanical Engineering, BMS Institute of Technology and Management, Bengaluru. Duration: August 10 – 14, 2020.
40. Computational Fluid Dynamics, Department of Mechanical and Manufacturing Engineering, Ramaiah University of Applied Sciences, Bengaluru. Duration: August 12 – 14, 2020.
41. Research & Innovation, Department of Information Science and Engineering, VVCE, Mysuru. Duration: August 17 – 21, 2020.
42. Basic Concepts in Turbo Machinery and its Applications, Department of Mechanical Engineering, The National Institute of Engineering, Mysuru. Duration: August 24 – 28, 2020.
43. 3D Printing & Design (ATAL FDP), BMS College of Engineering, Bengaluru. Duration: September 1 – 5, 2020.
44. Recent Advances in Tribology and Surface Engineering: Series 2 of 4 – *Tribology of Machine Components and Applied Tribology*, Department of Mechanical Engineering, Saintgits College of Engineering, Kottayam, Kerala. Duration: September 14 – 19, 2020. (AICTE sponsored STTP).

45. Recent Advances in Tribology and Surface Engineering: Series 3 of 4 – *Introduction to Special Topics like – Nanotribology, Biotribology, Space tribology, Biomimetics and Tribology in Industry*, Department of Mechanical Engineering, Saintgits College of Engineering, Kottayam, Kerala. Duration: October 12 – 17, 2020. (AICTE sponsored STTP).
46. Creating Smart and Green Society through Advance Technology of Green Energy (Phase 1), Malnad College of Engineering, Hassan, Karnataka. Duration: December 10 – 15, 2020. (AICTE sponsored STTP).
47. Creating Smart and Green Society through Advance Technology of Green Energy (Phase 2), Malnad College of Engineering, Hassan, Karnataka. Duration: December 17 – 22, 2020. (AICTE sponsored STTP).
48. Renewable Energy for Sustainable Development, Bharatratna Indira Gandhi College of Engineering, Solapur. Duration: 1 - 5 March 2022.
49. Make in India: Through 3D Printing and Industry 4.0 for Indian Industries – Phase II, Department of Mechanical Engineering, Kamaraj College of Engineering and Technology (Autonomous), Madurai, Tamilnadu. Duration: April 12 - 17, 2021. (AICTE Sponsored Online STTP).
50. Sources of Research Grants and Art of Writing a Research Paper. Department of Mechanical Engineering, R L Jalappa Institute of Technology, Doddaballapur, Bengaluru Rural District. Duration: June 3, 2021.
51. Novel Materials for Next-Generation Applications (ATAL FDP), M S Ramaiah Institute of Technology, Bengaluru. Duration: July 12 - 16, 2021.
52. Refresher course on Advanced Pedagogy (STTP). NITTTR, Kolkata. Duration: Jan 24 - Feb 4, 2022.
53. Robotics and Artificial Intelligence (ATAL FDP), Lakireddy Bali Reddy College of Engineering, Mylavaram. Duration: Feb 7 – 11, 2022.
54. Application of Geoinformatics and Remote Sensing in Engineering & Technology, Dept. of Civil Engineering, Bharat-Ratna Indira Gandhi College of Engineering, Kegaon, Solapur, Maharashtra, Duration: 19 - 23 September 2022.
55. Advanced Tools and Techniques for Best Research, Department of Information Science & Engineering and IPR-Cell, RV Institute of Technology and Management, Bengaluru. Duration: 26 - 30 September 2022.

56. Recent Trends in Composites, Department of Mechanical Engineering, Alliance College of Engineering and Design (ACED), Alliance University, Bengaluru. Duration: 2-6 Jan 2023.

Research Collaborators

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Google Scholar	:	https://scholar.google.co.in/citations?user=dT5VZiUAAAJ&hl=en
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