CURRICULUM VITAE

Personal Information

Name	Dr. Madhu P
Designation	Associate Professor & Dean (Research)
Department	Mechanical Engineering
Email	madhu.p.gowda15@gmail.com & pm@mcehassan.ac.in
Contact No.	+91-9740627464
Birthplace	Hassan, Karnataka, India
Address	No. 49, Sri Ranganatha Nilaya, Pragathi Nagar, Near Railway Station, Rajaghatta Road, Hassan - 573201.

Publications (114)

- International Journals = 93 (SCIE = 63, Scopus = 22 & Peer reviewed = 08)
- International Conference = 04 & National Conference = 01
- Book = 03, Book Chapter = 18
- Patents: 13 [Granted - 08; Published – 04; Filed - 01]
- Google Scholar Citations: 7542, h-index = 36 & i10 index = 77 (till November 14th, 2025)
- Research Gate Stats: Citations = 7303, Research Interest Score = 4003, Recommendations = 1,580 & Number of reads = 51,828 (till November 14th, 2025)
- 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
▪ Human-Computer Interaction	▪ Research Methodology and IPR

4. Experiences

4.1 Teaching Experience

Designation	Department	Institute	Duration
Assistant Professor	Mechanical Engineering	Malnad College of Engineering, Hassan	August 2013 to June 2024
Associate Professor	ISE	Malnad College of Engineering, Hassan	June 2024 to September 2024
Associate Professor	Mechanical Engineering	Malnad College of Engineering, Hassan	September 2024 to 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 Member	June 2020 to date
College-level Interdisciplinary Projects Committee Member	August 2022 to date
IPR Activity Coordinator (IIC)	November 2022 to date

Institutional Research Advisory Committee (IRAC)	August 2023 to date
Malnad Technical Club Convener	May 2023 to date
NIRF Coordinator	December 2023 to October 2024
Associate Dean (Research)	January 2024 to February 2025
Dean (Research)	February 2025 to date

4.3 Ph.D. Guidance

- **Guiding Two PhD Scholars**
  - Rani R (Full-Time Scholar, 2024)
    - University Seat Number: 4MC23PME02
    - Research Topic: Impact of Gamma Radiation on the Mechanical Behaviour of Natural Fiber Reinforced Hybrid Composites for Structural Applications.
  - Manjunath H N (Part-Time Scholar, 2024)
    - University Seat Number: 4MC23PME01
    - Research Topic: Effect of Bio Waste Filler on Mechanical and Morphological Behavior of Natural and Synthetic Fibers Reinforced Hybrid Composites for Automotive Applications.

4.4 Academic/Professional Service

- DAC Member (External Expert): PhD scholar Sunilkumar Bandappa Harsur, Manipal Institute of Technology, MAHE, Manipal (2025 – Present).

4.5 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: July 1-5, 2020.
- **Organizing Committee Member** in the International Conference on Trends in Mechanical Engineering Sciences - 2020 (ICTMES-2020) on the 6th and 7th of August 2020 organized by the 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) from 3rd to 5th October 2018 organized by the Department of Mechanical Engineering at Malnad College of Engineering, Hassan.
- **Organizing Committee Member** in a 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) from 3rd to 5th May 2017 organized by the Department of Mechanical Engineering at Malnad College of Engineering, Hassan.
- **Overseas Organizing Committee Member** in the International Conference on Eco-friendly Fibers and Polymeric Materials (EFPM'24) on 19-20 February 2024 organized by King Mongkut's University of Technology North Bangkok, Thailand.
- **Coordinator** in SAMAVESHA (uniting Minds & Igniting innovations) on 13th March 2024 at MCE, Hassan, organized by MCE, Hassan in association with ISTE facilities Map (I-Stem).

5. Awards/ Fellowships/ Recognitions

5.1 Awards

1. Award for Outstanding Research Publication (AORP) for 2023-24 from Vision Group on Science & Technology, Department of IT, BT, and Science & Technology, Government of Karnataka.
2. 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, 2022, and 2023.
3. 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)
4. Young Researcher Award - 2022 for the article *"A review on synthesis and characterization of commercially available natural fibers: Part-I"* from the Institute of Scholars(InSc).

5. Young Researcher (RSL078) from Global Academicians & Researchers Network (RSquareL) for the article *"Characterization and properties of natural fiber polymer composites: A comprehensive review"*.
6. Top cited article 2020-21 *"A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization"* Polymer Composites, Wiley.
7. Top cited article 2021-22 *"A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization"*Polymer Composites, Wiley.
8. Top cited article 2021-22 *"Influence of nanofillers on biodegradable composites: A comprehensive review"* Polymer Composites, Wiley.
9. Top cited article 2022-23 *"A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization"* Polymer Composites, Wiley.
10. Top cited article 2022-23 *"Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties"* Polymer Composites, Wiley.
11. Top cited article 2022-23 *"Recent developments and challenges in natural fiber composites: A review"* Polymer Composites, Wiley.
12. Top downloaded article 2022-23 *"A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization"* Polymer Composites, Wiley.
13. Top downloaded article 2022-23 *"Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state of the art"* Polymer Composites, Wiley.
14. Highly viewed Paper 2023 *"Role of Polymer Composites in Railway Sector: An Overview"* Applied Science and Engineering Progress (ISSN 2673-0421).

5.2 Adjunct Professorship

- Adjunct Professor, Department of Mechanical Engineering, Universitas Brawijaya, Indonesia, for research collaboration on Bamboo Fiber Composite Modifications.

5.3 Fellowships

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

5.4 Editorial Board Member for Journals

- Editorial Board Member inAdvancement 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 inArchives 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)
- Editorial Board Member in Journal of Research Updates in Polymer Science
- Editorial Board Member in Discover Materials (Springer, Scopus indexed)

5.5 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

5.6 Reviewer of International Journals

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

- Journal of Cleaner Production, SCIE (Elsevier)
- Journal of Vinyl & Additive Technology, SCIE (Wiley)
- Symmetry (MDPI)
- Journal of Marine Science and Engineering (MDPI)
- Coatings (MDPI)
- Materials (MDPI)
- Applied Sciences (MDPI)
- Polymers (MDPI)
- Sustainable Materials and Technologies, SCIE (Elesvier)

- Archives of Computational Methods in Engineering, SCIE (Springer)
- Biomass Conversion and Biorefinery, SCIE (Springer)
- Journal of Nanomaterials, WOS (Hindawi)
- Journal of Natural Fibers, SCIE (Taylor and Francis)
- Composites Communications, SCIE (Elsevier)
- Fibers and Polymers, SCIE (Springer)
- Iranian Polymer Journal, SCIE (Springer)
- Frontiers in Materials, SCIE
- Silicon, SCIE (Springer)
- e-Polymers, SCIE (De Gruyter)
- Construction and Building Materials, SCIE (Elsevier)
- Journal of Polymers and the Environment, SCIE (Springer)
- Journal of Industrial Textiles, SCIE (Sage)
- Polymer Composites, SCIE (Wiley)
- International Journal of Industrial Chemistry, Scopus (Springer)
- Current Research in Green and Sustainable Chemistry, Scopus (Elsevier)
- Materials Today: Proceedings, Scopus (Elsevier)
- Applied Science and Engineering Progress (Scopus)
- Multiscale and Multidisciplinary Modeling, Experiments and Design, Scopus (Springer)
- Polímeros, SciELO, Google Scholar (Associação Brasileira de Polímeros – ABPol)
- SN Applied Sciences, Scopus (Springer)
- The African Journal of Pure and Applied Chemistry, (Academic Journals)
- BioResources, Scopus (NC State University, USA)
- Bentham Science Publishers

5.7 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.
4. First Joint International Conference on **"Advances in Mechanical and Aerospace Engineering (ICAMAE 2023)"** Nov 28-30, 2023, Alliance University, India & University of Strathclyde, Glasgow, Scotland.
5. Session Chair for the **International Conference on Eco-friendly Fibers and Polymeric Materials (EFPM' 24)**, Bangkok, Thailand, 19-20 February 2024.
6. Conference Chair in **International Conference on Advnacements in Science, Technology and Management (ICASTM) 2024** – Jointly organised by Department of Computer Science, St. Xavier's College of Management & Technology, Patna, Bihar, India & Global Conference Hub, Coimbatore, Tamilnadu, India on April 25-26, 2024.

5.8 Reviewer of International Book Proposals

1. Springer Publication.
2. Elsevier Publication.

5.9 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 (ISRD). London Press, United Kingdom.
5. F-R Square L, **Fellow Life Member** of RSquareL (2022).
6. LMINSC, **Life Member** of the Institute of Scholars (2022).

6. Patents

Sl. No.	Title	Type	Inventors	Application No.	Date of filing	Status
1.	Development of Hybrid Polymer Composites Reinforced with Prosopis Juliflora Bark Fibers, Phoenix Pusilla Leaf Fibers, Glass Fabrics and Carbon Fabrics	Indian Utility Patent	Madhu P, Sanjay M R, Pradeep S, H Mohit, Yogesha B, Suchart Siengchin	202041000392	04/01/2020	Granted (419287), 25/01/2023
2.	Development of Toolbox Material from Hybrid Composites Reinforced with NC, NDL, NK, GF and NP-MMC	Indian Utility Patent	H Mohit, G Hemath Kumar, V Arul Mozhi Selvan, Sanjay M R, Suchart Siengchin, Madhu P	201941045139	06/11/2019	Published
3.	Development of Advanced Prosthetic Device for Blind Amputees	Indian Utility Patent	Vivek S T, Rakesh K Y, Amit B, Madhu P, Vardhaman College of Engineering, Hyderabad, Telangana, Mohit Gupta, B K Sarkar	202141051978	12/11/2021	Granted (530306), 26/03/2024
4.	Device and System to Mend Polymer and Composite Sheets on Greenhouses and Polysheet Shadenet Structures	Indian Utility Patent	K Bindu Kumar, Surakasi R, Suresh C, Nekkanti H, Madhu P, L Nagarajan	202241044724	05/08/2022	Awaiting Request for Examination
5.	Smart oil level and condition indicating brake lever	Indian design	S Premalatha, Madhu P, Yashas Gowda T G, R Kumaravelan, K M Akkoli, Vutukuru Shravan Koundinya	399240-001	04/11/2023	Design accepted and published, 26/04/2024

6.	Nano materials to replace the augment human tissues	Indian Utility Patent	Madhu P, Reena Singh, Rahul, Pawan Kumar Singh, B K Sarkar, Vandana Singh	202441011121	17/02/2024	Filed
7.	Multi-Socketed Terminal Board with Wireless Audio Player	UK-Indian Dual Patent	S V Reddy, Sree Balaji V S, Pritam P, Calwin P S, Prasoon P P, Dheivanai R, Madhu P	6299074 (UK Design No.)	26/07/2023	09/08/2023
8.				396980-001 (Indian Design No.)	26/07/2023	07/10/2023
9.	IoT based Paralysis Treatment Device	Indian design	S Vijayalakshmi, S Sweetkine Shamini, A Umarani, Madhu P, Raghavendra M Devadas, Anand Bhat B	414650-001	24/04/2024	Design accepted and published, 05/07/2024
10.	Advanced Prosthetic Limb with Adaptive Control and RealTime Monitoring	UK Design	Lakshmi Kanthan B S, Madhu P, Hemanth T S, Saran Raja, Selvi V, Shri Om Mishra	6373631	23/06/2024	01/07/2024
11.	Eco-Friendly Venturimeter: Chemically Treated Coir Fiber Reinforced Bio-Pla Composite Via 3d Printing	Indian Utility Patent	Karthik S, Madhu P, Sharath B N, Prem Kumar B G, Madhu K S, Jeevan T P, Hemanth T S, Pradeep D G	202441053537	12/07/2024	02/08/2024
12.	Plant disease identification device using AI	Indian design	Shashank S, Harsha S, Madhu P, P Pushpalata, Mukta J, Anurag S, Amit S	421577-001	28/06/2024	02/08/2024
13.	Handy concrete thermal conductivity meter	Indian design	Anilkumar S H, Venkateswarlu G, Amar V B, Madhu P, Sharath B N	422025-001	03/07/2024	03/01/2025

7. Projects/ Research Grants

1. Bio- Nanocomposites from organic waste for coatings and steel corrosion inhibitors (Awarded on 27th November 2023)

   Funding agency: Institute for Research and Community Service, Brawijaya University.

   Duration: 1 Year

   Amount: IDR 2000.000.000 (Rs. 10,63,179.56/-)

   Principal Investigator: Dr. Ir. Femiana Gapsari; My Role: World University's Partner

2. Experimental investigation on machining performance of cutting fluids derived from blended nonedible vegetable oil (Completed, 2020 to 2022)

   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

3. Development of Areca/ Sisal/ Carbon Woven Fabrics Vinylester Hybrid Composites for Medium Load Structural Application (2019-20)(KSCST – Student Project (Rs. 6000/-)) (43S_BE_1772)
4. 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)*
5. Irradiation Effect on Mechanical Properties of Flax Fabric Reinforced Polymer Composites for Spacecraft Application (2022-23) (KSCST – Student Project (Rs. 8000/-)) (46S_BE_0493)
6. Exploring Mechanical and Tribological Behaviour of Aramid Fiber-Based Phenolic Composites With Gr/Al Fillers for Potential Automotive Brake Pad Applications (2023-24) (KSCST – Student Project (Rs. 7000/-)) (47S_BE_0792)
7. Experimental Investigation of Cylindrical Heat Pipe Thermal Performance Using Hybrid Nanofluids for Advanced Cooling Applications (2024-25) (KSCST – Student Project (Rs. 4500/-)) (48S_BE_2546)

8. List of publications

Book (3)

Sl. No.	Citations	Publisher
1.	**Madhu Puttegowda**, Sanjay M R, Suchart Siengchin, authors. Fiber-Reinforced Polymer Composites. Woodhead Publishing; 2025. ISBN: 9780443275463.	Woodhead Publishing, Elsevier
2.	**Puttegowda M,** TG YG, Rangappa SM, Siengchin S, editors. Applications of Composite Materials in Engineering. Elsevier; 2024 Oct 19.	Woodhead Publishing, Elsevier
3.	Rangappa SM, **Puttegowda M**, Parameswaranpillai J, Siengchin S, Gorbatyuk SM, editors. Advances in bio-based fiber: moving towards a green society. Woodhead Publishing; 2021 Dec 1.	Woodhead Publishing, Elsevier

Book Chapters (18)

Sl. No.	Citations	Publisher
1.	**Puttegowda M**, Nagaraju SB. Numerical analysis of eco-friendly fibers and polymers for the sustainable environment. InEco-Friendly Fiber Reinforced Polymer Composite Materials 2026 Jan 1 (pp. 325-346). Woodhead Publishing.	Woodhead Publishing, Elsevier
2.	Jeevan TP, TG YG, Divya HV, **Madhu P**. Morphology and characterization of surface-treated fibers. InSurface Modification and Coating of Fibers, Polymers, and Composites 2025 Jan 1 (pp. 347-369). Elsevier.	Elsevier
3.	Madhu KS, Sharath BN, Karthik S, Pradeep DG, **Puttegowda M**, TG YG, Premkumar BG, Rao RR. An introduction to metal matrix composites and their applications. InApplications of Composite Materials in Engineering 2025 Jan 1 (pp. 45-73). Elsevier Science Ltd.	Woodhead Publishing, Elsevier
4.	Puttaswamy JT, **Puttegowda M**, TG YG, Vedavathi DH. Evolution and recent advancements of composite materials in rapid prototyping. InApplications of Composite Materials in Engineering 2025 Jan 1 (pp. 169-193). Elsevier Science Ltd.	Woodhead Publishing, Elsevier
5.	**Puttegowda M**, Sharath BN, TG YG, Rangappa SM, Siengchin S. An introduction to polymer matrix composites and their applications. InApplications of Composite Materials in Engineering 2025 Jan 1 (pp. 1-44). Elsevier Science Ltd.	Woodhead Publishing, Elsevier
6.	Sharath BN, TG YG, **Puttegowda M**. Prospects of synthetic fiber-reinforced polymer composites in engineering and commercial applications. InApplications of Composite Materials in Engineering 2025 Jan 1 (pp. 365-395). Elsevier Science Ltd.	Woodhead Publishing, Elsevier
7.	Sharath BN, **Madhu P**, Pradeep DG, Thanush HG, Kumar KM, Manoj S, Verma A. Unveiling the potential of age hardened aluminum alloys: Strengthening solutions for engineering challenges. InHybrid composite materials: experimental and theoretical analysis 2024 May 19 (pp. 349-369). Singapore: Springer Nature Singapore.	Woodhead Publishing, Elsevier
8.	**Puttegowda M**, Nagaraju SB, Girijappa YG, Puttaswamy JT. Finite element analysis of polymeric materials in day-to-day applications.	IGI Global

	InFinite Element Analysis of Polymers and Composites 2024 Jan 1 (pp. 511-543). Woodhead Publishing.	
9.	Goilkar SS, Prasad SV, **Madhu P**, Goilkar SS, Chandra S. Biometric Authentication and Theft Alert System for Motorcycles Using IoT. InContemporary Solutions for Sustainable Transportation Practices 2024 (pp. 408-435). IGI Global.	Springer Singapore
10.	Sathyanarayana K, **Puttegowda M**, Rangappa SM, Siengchin S, Shivanna P, Nagaraju SB, Somashekara MK, Girijashankar PB, Girijappa YG. Metallic lightweight materials: properties and their applications. InLightweight and Sustainable Composite Materials 2023 Jan 1 (pp. 47-67). Woodhead Publishing.	Woodhead Publishing, Elsevier
11.	Nagaraju SB, Priya HC, Girijappa YG, **Puttegowda M**. Lightweight and sustainable materials for aerospace applications. InLightweight and Sustainable Composite Materials 2023 Jan 1 (pp. 157-178). Woodhead Publishing.	Woodhead Publishing, Elsevier
12.	Jagadeesh P, **Puttegowda M**, Girijappa YG, Sathyanarayana K, Rangappa SM, Siengchin S, Hassan SA. Lightweight and sustainable materials for structural applications. InLightweight and Sustainable Composite Materials 2023 Jan 1 (pp. 197-217). Woodhead Publishing.	Woodhead Publishing, Elsevier
13.	Rangappa SM, **Puttegowda M**, Parameswaranpillai J, Siengchin S, Ozbakkaloglu T, Wang H. Introduction to plant fibers and their composites. InPlant fibers, their composites, and applications 2022 Jan 1 (pp. 1-24). Woodhead Publishing.	Woodhead Publishing, Elsevier
14.	**Madhu P**, Praveenkumara J, Sanjay MR, Siengchin S, Gorbatyuk S. Introduction to bio-based fibers and their composites. InAdvances in bio-based fiber 2022 Jan 1 (pp. 1-20). Woodhead Publishing.	Woodhead Publishing, Elsevier
15.	Girijappa YG, Ayyappan V, **Madhu P**, Rangappa SM, Parameswaranpillai J, Siengchin S. Plastics in automotive applications.	Elsevier
16.	Jagadeesh P, **Puttegowda M**, Girijappa YG, Rangappa SM, Gupta MK, Siengchin S. Mechanical, electrical and thermal behaviour of additively manufactured thermoplastic composites for high performance applications. InAdditive and subtractive manufacturing of composites 2021 Aug 7 (pp. 167-199). Singapore: Springer Singapore.	Springer
17.	**Puttegowda M**, Thyavihalli Girijappa YG, Mavinkere Rangappa S, Parameswaranpillai J, Siengchin S. Effect of process engineering on the performance of hybrid fiber composites. Hybrid fiber composites: materials, manufacturing, process engineering. 2020 Oct 12:17-40.	Wiley-VCH Verlag GmbH & Co. KGaA
18.	**Puttegowda M**, Rangappa SM, Jawaid M, Shivanna P, Basavegowda Y, Saba N. Potential of natural/synthetic hybrid composites for aerospace applications. InSustainable composites for aerospace applications 2018 Jan 1 (pp. 315-351). Woodhead Publishing.	Woodhead Publishing, Elsevier

Journals (93)

Sl. No.	Citations	Indexing, Impact Factor and Quartile
1.	**Puttegowda M**, Sharath BN, Shivanna P, Rangappa SM, Siengchin S. Enhanced Mechanical and Moisture Resistance in Aramid/Epoxy Composites with Aluminum and Graphite Fillers for Precision Engineering Applications. International Journal of Precision Engineering and Manufacturing. 2025 Nov 10:1-7.	SCIE, 3.6, Q2
2.	Nagaraju SB, **Puttegowda M**, Raharjo R, Gapsari F, Rangappa SM, Siengchin S. Mechanical and moisture performance of pineapple leaf fiber/carbon fiber-eggshell reinforced epoxy composites for eco-friendly applications. Journal of the Indian Academy of Wood Science. 2025 Oct 25:1-4.	Scopus, 1.2, Q3
3.	Taj A, Bharath KN, Hiremath A, **Madhu P**, Sanjay MR, Siengchin S. Mechanical enhancement of sustainable natural fiber composites through filler additives: a comprehensive review. Journal of Umm Al-Qura University for Engineering and Architecture. 2025 Oct 20:1-9.	Scopus, Q1
4.	Jeevan TP, Divya HV, **Madhu P**, Sharath BN, Pradeep S. Performance Evaluation of Blended Neem and Mahua Oil-Based Cutting Fluids in Machining of SS316 Stainless Steel. Journal of Bio-and Tribo-Corrosion. 2025 Sep;11(3):87.	Scopus, Q2
5.	**Madhu P**, Sharath BN, Srinath MS, Pradeep S, Sanjay MR. Mechanical and structural optimization of flax fiber reinforced composites through controlled gamma irradiation. iScience. 2025 Jul 18;28(7).	Scopus, 4.1, Q1
6.	Chikkaputtaiah H, Sridharmurthy SM, Hebbale AM, Marahadige SL, **Puttegowda M**. Development and Characterization of Al-SiC Metal Matrix Composites Through Microwave Processing and Extrusion. Applied Science and Engineering Progress. 2025 Jul 16;18(3):7652-.	Scopus, Q2
7.	Jagadeesh P, Sanjay MR, Rajeshkumar G, Kandasamy J, Oladele IO, **Madhu P**, Siengchin S. Development of eco-friendly basalt filler reinforced poly (lactic acid) composites using an additive manufacturing: An experimental insights. International Journal of Biological Macromolecules. 2025 Jun 1;311:143698.	SCIE, 8.5, Q1
8.	Sharath BN, Pradeep DG, **Madhu P**, Vinyas M. Carbon nanotube-infused metal matrix composites: a review of recent advances and future prospects for engineering use. Sādhanā. 2025 May 10;50(2):97.	SCIE, 1.4, Q2
9.	**Puttegowda M**. Eco-friendly composites: exploring the potential of natural fiber reinforcement. Discover Applied Sciences. 2025 May;7(5):1-24.	Scopus, Q2
10.	Kumar VM, **Madhu P**, Sharath BN, Raharjo R, Gapsari F. Enhancing Mechanical and Tribological Properties of Hybrid	SCIE, 2.0, Q2

	Kenaf–Carbon Fiber Vinyl Ester Composites for Advanced Applications. Journal of Materials Engineering and Performance. 2025 Mar 13:1-4.	
11.	Sharath BN, Yashas Gowda TG, **Madhu P**, Pradeep Kumar CB, Jain N, Verma A, Sanjay MR, Siengchin S. Fabrication of raw and chemically treated biodegradable Luffa aegyptica fruit fibre-based hybrid epoxy composite: a mechanical and morphological investigation. Biomass Conversion and Biorefinery. 2025 Mar;15(6):8473-86.	SCIE, 4.1, Q2
12.	**Puttegowda M**, Nagaraju SB. Artificial intelligence and machine learning in mechanical engineering: Current trends and future prospects. Engineering Applications of Artificial Intelligence. 2025 Feb 15;142:109910.	SCIE, 8.0, Q1
13.	Sharath BN, TG YG, BC H, **Madhu P**. Gamma radiation-induced degradation of mechanical properties in Carbon/Kevlar hybrid epoxy composites for aerospace applications. Journal of Polymer Research. 2024 Dec;31(12):367.	SCIE, 2.8, Q2
14.	Gapsari F, Setyarini PH, Harmayanti A, **Puttegowda M**, Arsyad M, Rangappa SM, Siengchin S. Isolation and extraction of microcellulose from Alpine galanga fiber. Sustainable Chemistry and Pharmacy. 2024 Dec 1;42:101829.	SCIE, 5.8, Q1
15.	Karthik S, Sharath BN, **Madhu P**, Madhu KS, Prem Kumar BG, Verma A. Experimental and artificial neural network-based slurry erosion behavior evaluation of cast iron. International Journal on Interactive Design and Manufacturing (IJIDeM). 2024 Nov;18(9):6739-49.	Scopus, 2.5, Q2
16.	Devendrappa SK, **Puttegowda M**, Nagaraju SB. Enhancing wear resistance, mechanical properties of composite materials through sisal and glass fiber reinforcement with epoxy resin and graphite filler. Journal of the Indian Chemical Society. 2024 Oct 1;101(10):101349.	SCIE, 3.4, Q2
17.	Manjulaiah H, Dhanraj S, Basavegowda Y, Lamani LN, **Puttegowda M**, 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. 2024 Oct;14(19):23411-23.	SCIE, 4.1, Q2
18.	Sharath BN, **Madhu P**, Verma A. Wear behaviour of aluminium-based hybrid composites processed by equal channel angular pressing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2024 Sep;238(9):1079-90.	Scopus, Q2
19.	Tiwari ES, Mittal T, Habelalmateen MI, **Madhu P**, Nimmalaharathi, Bansal S, Kaushik R. Human-Computer Interaction and Computational Intelligence: Machine Learning Approaches. In 2024 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI) 2024 Jul 4 (pp. 1-9). IEEE.	IEEE, Peer reviewed

20.	Nagaraju SB, **Puttegowda M**, Girijappa YG, Rawat NK, Verma A, Rangappa SM, Siengchin S. Mechanical characterization and water absorption behavior of waste coconut leaf stalk fiber reinforced hybrid polymer composite: Impact of chemical treatment. Applied Science and Engineering Progress. 2024 Jul 2;17(3):7371-.	Scopus, Q2
21.	Jagadeesh P, **Puttegowda M**, Suyambulingam I, Gupta MK, Mavinkere Rangappa S, Siengchin S. Analysis of friction and wear performance of eco-friendly basalt filler reinforced polylactic acid composite using the Taguchi approach. Journal of Thermoplastic Composite Materials. 2024 Jul;37(7):2479-504.	SCIE, 3.4, Q1
22.	Masood AA, Ali A, **Madhu P**, Gowda TY, Jeevan TP, Sharath BN. Characterizing the effects of SiC and Al_2O_3 on the mechanical properties of Al6082 hybrid metal matrix composites: An experimental and neural network approach. Advances in Production Engineering & Management. 2024 Jun 1;19(2):281-92.	SCIE, 1.125, Q2
23.	Bharath KN, **Puttegowda M**, 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. 2024 Jun;14(11):12599-612.	SCIE, 4.1, Q2
24.	Arpitha GR, Mohit H, **Madhu P**, Verma A. 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. 2024 Jun;14(11):12539-57.	SCIE, 4.1, Q2
25.	Nagaraju SB, **Puttegowda M**, Somashekara MK, Girijappa TG, Govindaswamy PD, Sathyanarayana K. Advancing the performance of ceramic-reinforced Aluminum hybrid composites: A comprehensive review and future perspectives. Applied Science and Engineering Progress. 2024 Apr 3;17(2):7034-.	Scopus, Q2
26.	Nagaraju SB, Sathyanarayana K, Somashekara MK, Pradeep DG, **Puttegowda M**, Verma A. Artificial neural networks for predicting mechanical properties of Al2219-B4C-Gr composites with multireinforcements. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science. 2024 Mar;238(6):2170-84.	SCIE, 1.7, Q2
27.	Gowda AH, Goud G, Sathynarayana K, **Puttegowda M**. Influence of water absorption on mechanical and morphological behaviour of Roystonea-Regia/banana hybrid polyester composites. Applied Science and Engineering Progress. 2024 Feb 9;17(1):7074-.	Scopus, Q2
28.	Sharath BN, Madhu KS, Pradeep DG, **Madhu P**, Premkumar BG, Karthik S. High temperature tensile behaviour of ceramic-hybridized metal matrix composites for above-room-temperature applications. Silicon. 2024 Feb;16(3):1205-16.	SCIE, 3.3, Q2
29.	Jagadeesh P, **Puttegowda M**, Rangappa SM, Siengchin S. Accelerated weathering of sustainable and micro-filler Basalt	SCIE, 7.4, Q1

	reinforced polymer biocomposites: physical, mechanical, thermal, wettability, and water absorption studies. Journal of Building Engineering. 2023 Dec 1;80:108040.	
30.	Nagaraju SB, Somashekara MK, Govindaswamy PD, **Puttegowda M**, Shankar PB, Sathyanarayana K. Wear behaviour of hybrid (boron carbide-graphite) aluminium matrix composites under high temperature. Journal of Engineering and Applied Science. 2023 Dec;70(1):124.	Scopus, Q2
31.	Sharath BN, **Madhu P**, Verma A. Enhancing tribological performance: a review of ceramic reinforced aluminium hybrid composites for high-temperature engineering applications. Hybrid Advances. 2023 Dec 1;4:100094.	DOAJ, Q2
32.	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, Q2
33.	Jagadeesh P, Rangappa SM, **Puttegowda M**, Suyambulingam I, Siengchin S. Thermal analysis of sustainable and micro-filler Basalt reinforced polymer biocomposites for lightweight applications. Journal of Building Engineering. 2023 Nov 15;79:107869.	DOAJ, Q1
34.	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 Al2618+Si_3N_4-B_4C-Gr hybrid composites for automotive applications. Journal of Alloys and Metallurgical Systems. 2023 Sep 1;3:100014.	DOAJ, Q1
35.	Nagaraju SB, Somashekara MK, Govindaswamy PD, **Puttegowda M**, 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, Q2
36.	TG YG, Ballupete Nagaraju S, **Puttegowda M**, 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.	Scopus, 3.7, Q1
37.	Jagadeesh P, **Puttegowda M**, 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 May;29(3):555-67.	SCIE, 3.6, Q2
38.	Bharath KN, **Puttegowda M**, 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, 3.1, Q2

39.	Jagadeesh P, Rangappa SM, Suyambulingam I, Siengchin S, **Puttegowda M**, 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;9(3).	Scopus, 3.6, Q1
40.	Sharath BN, Madhu KS, Pradeep DG, **Madhu P**, Premkumar BG, Karthik S. Conjectured hybrid power with artificial intelligence and single-axis solar tracking wind turbine. International Journal of Energy and Water Resources. 2023 Jan 24:1-7.	Scopus, Q3
41.	**Puttegowda M**, Girijappa YG. Innovative polymer science: Groundbreaking materials for a sustainable future. Insight. 2023;6(1).	Peer reviewed, Q3
42.	Ballupete Nagaraju S, Kodigarahalli Somashekara M, **Puttegowda M**, Manjulaiah H, Kini CR, Channarayapattana Venkataramaiah V. Effect of B4C/Gr on hardness and wear behavior of Al2618 based hybrid composites through Taguchi and artificial neural network analysis. Catalysts. 2022 Dec 15;12(12):1654.	SCIE, 4.0, Q2
43.	Manimaran P, Vignesh V, Khan A, Pillai GP, Nagarajan KJ, Prithiviraj M, Al-Romaizan AN, Hussein MA, **Puttegowda M**, Asiri AM. Extraction and characterization of natural lignocellulosic fibres from Typha angustata grass. International Journal of Biological Macromolecules. 2022 Dec 1;222:1840-51.	SCIE, 8.5, Q1
44.	**Puttegowda M**, Rangappa SM, Khan A, Al-Zahrani SA, Otaibi AA, Shivanna P, Liu Y, Siengchin S. Effect of layering sequence on impact properties of alkali treated phoenix pusilla fibers-glass-carbon fabrics reinforced hybrid composite laminates. Journal of Natural Fibers. 2022 Dec 1;19(13):6878-88.	SCIE, 3.1, Q2
45.	Jagadeesh P, **Puttegowda M**, Thyavihalli Girijappa YG, Rangappa SM, Siengchin S. Effect of natural filler materials on fiber reinforced hybrid polymer composites: An Overview. Journal of Natural Fibers. 2022 Nov 2;19(11):4132-47.	SCIE, 3.1, Q2
46.	**Madhu P**, Sanjay MR, Khan A, Otaibi AA, Al-Zahrani SA, Pradeep S, Yogesha B, Boonyasopon P, Siengchin S. Hybrid effect of PJFs/E-glass/carbon fabric reinforced hybrid epoxy composites for structural applications. Journal of Natural Fibers. 2022 Oct 3;19(10):3742-52.	SCIE, 3.1, Q2
47.	Patil MB, Rajamani SB, Mathad SN, Patil AY, Hussain MA, Alorfii HS, Khan A, Asiri AM, Khan I, **Puttegowda M**. 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. 2022 Sep 1;20:3537-48.	SCIE, 6.6, Q1
48.	Jagadeesh P, Mavinkere Rangappa S, Siengchin S, **Puttegowda M**, Thiagamani SM, G R, Hemath Kumar M, Oladijo OP, Fiore V, Moure Cuadrado MM. Sustainable recycling technologies for thermoplastic polymers and their composites: A review of the state	SCIE, 4.7, Q1

	of the art. Polymer Composites. 2022 Sep;43(9):5831-62.	
49.	Yashas Gowda TG, Vinod A, **Madhu P**, Sanjay MR, Siengchin S, Jawaid M. Areca/Synthetic fibers reinforced based epoxy hybrid composites for semi-structural applications. Polymer Composites. 2022 Aug;43(8):5222-34.	SCIE, 4.7, Q1
50.	TG YG, A V, **P Madhu**, Mavinkere Rangappa S, Siengchin S, Jawaid M. Mechanical and thermal properties of flax/carbon/kevlar based epoxy hybrid composites. Polymer Composites. 2022 Aug;43(8):5649-62.	SCIE, 4.7, Q1
51.	Praveenkumara J, **Madhu P**, Yashas Gowda TG, Sanjay MR, Siengchin S. A comprehensive review on the effect of synthetic filler materials on fiber-reinforced hybrid polymer composites. The Journal of the Textile Institute. 2022 Jul 3;113(7):1231-9.	Scopus, 1.5, Q2
52.	Yashas Gowda TG, **Madhu P**, Kushvaha V, Rangappa SM, Siengchin S. Comparative evaluation of areca/carbon/basalt fiber reinforced epoxy/bio epoxy based hybrid composites. Polymer Composites. 2022 Jul;43(7):4179-90.	SCIE, 4.7, Q1
53.	Jagadeesh P, **Puttegowda M**, Rangappa SM, Alexey K, Gorbatyuk S, Khan A, Doddamani M, Siengchin S. A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications. The International Journal of Advanced Manufacturing Technology. 2022 Jul;121(1):127-69.	SCIE, 3.1, Q1
54.	Sangeetha P, Nageshwari M, Kumari CR, Srividhya S, Vinitha G, Mathubala G, Manikandan A, Caroline ML, Khan A, Alorfi HS, Hussein MA, **Madhu Puttegowda**. Growth and characterization of second and third order acentric studies of L-phenylalanine L-phenylalaninium malonate single crystal. Crystals. 2022 Jun 20;12(6):869.	SCIE, 2.4, Q2
55.	Kangokar Mukesh S, Bettagowda N, Praveenkumara J, Thyavihalli Girijappa YG, **Puttegowda M**, Mavinkere Rangappa S, Siengchin S, Gorbatyuk S. Influence of stacking sequence on flax/kevlar hybrid epoxy composites: Mechanical and morphological studies. Polymer Composites. 2022 Jun;43(6):3782-93.	SCIE, 4.7, Q1
56.	Jagadeesh P, **Puttegowda M**, Rangappa SM, Siengchin S. Role of polymer composites in railway sector: an overview. Applied Science and Engineering Progress. 2022 May 27;15(2):5745-.	Scopus, Q2
57.	Ajeesha TL, Manikandan A, Anantharaman A, Jansi S, Durka M, Almessiere MA, Slimani Y, Baykal A, Asiri AM, Kasmery HA, Khan A, **P Madhu**, Mary George. Structural investigation of Cu doped calcium ferrite (Ca1-xCuxFe2O4; x= 0, 0.2, 0.4, 0.6, 0.8, 1) nanomaterials prepared by co-precipitation method. Journal of Materials Research and Technology. 2022 May 1;18:705-19.	SCIE, 6.6, Q1
58.	Jagadeesh P, **Puttegowda M**, Boonyasopon P, Rangappa SM, Khan A, Siengchin S. Recent developments and challenges in natural fiber composites: a review. Polymer Composites. 2022 May;43(5):2545-61.	SCIE, 4.7, Q1

59.	Khan A, **Puttegowda M**, Jagadeesh P, Marwani HM, Asiri AM, Manikandan A, Khan AA, Ashraf GM, Rangappa SM, Siengchin S. Review on nitride compounds and its polymer composites: a multifunctional material. Journal of Materials Research and Technology. 2022 May 1;18:2175-93.	SCIE, 6.6, Q1
60.	Bharath KN, **P Madhu**, Mavinkere Rangappa S, S B, Siengchin S, Alexey K, Gorbatyuk S. Waste coconut leaf sheath as reinforcement composite material with phenol-formaldehyde matrix. Polymer Composites. 2022 Apr;43(4):1985-95.	SCIE, 4.7, Q1
61.	Jagadeesh P, **Puttegowda M**, Oladijo OP, Lai CW, Gorbatyuk S, Matykiewicz D, Rangappa SM, Siengchin S. A comprehensive review on polymer composites in railway applications. Polymer Composites. 2022 Mar;43(3):1238-51.	SCIE, 4.7, Q1
62.	Muthuppalani M, Otaibi AA, Balasubramaniyan S, Manikandan S, Manimaran P, Mathubala G, Manikandan A, Arshad MN, **Puttegowda M**, Alorfi HS, Khan A. Synthesis, Characterization and Bio-Potential Activities of Co (II) and Ni (II) Complexes with O and N Donor Mixed Ligands. Crystals. 2022 Feb 26;12(3):326.	SCIE, 2.4, Q2
63.	Patil M, Mathad SN, Patil AY, Arshad MN, Alorfi HS, **Puttegowda M**, Asiri AM, Khan A, Azum N. Synthesis and Characterization of Microwave-Assisted Copolymer Membranes of Poly (vinyl alcohol)-g-starch-methacrylate and Their Evaluation for Gas Transport Properties. Polymers. 2022 Jan 17;14(2):350.	SCIE, 4.9, Q1
64.	Jagadeesh P, **Puttegowda M**, Girijappa YG, Rangappa SM, Siengchin S. Carbon fiber reinforced areca/sisal hybrid composites for railway interior applications: Mechanical and morphological properties. Polymer Composites. 2022 Jan;43(1):160-72.	SCIE, 4.7, Q1
65.	Ansari A, Siddiqui VU, Akram MK, Siddiqi WA, Khan A, Al-Romaizan AN, Hussein MA, **Puttegowda M**. Synthesis of atmospherically stable zero-valent iron nanoparticles (nZVI) for the efficient catalytic treatment of high-strength domestic wastewater. Catalysts. 2021 Dec 27;12(1):26.	SCIE, 4.0, Q2
66.	Jagadeesh P, **Puttegowda M**, Mavinkere Rangappa S, Siengchin S. A review on extraction, chemical treatment, characterization of natural fibers and its composites for potential applications. Polymer Composites. 2021 Dec;42(12):6239-64.	SCIE, 4.7, Q1
67.	Jagadeesh P, **Puttegowda M**, Mavinkere Rangappa S, Siengchin S. Influence of nanofillers on biodegradable composites: a comprehensive review. Polymer Composites. 2021 Nov;42(11):5691-711.	SCIE, 4.7, Q1
68.	Kabeerdass N, Al Otaibi A, Rajendran M, Manikandan A, Kashmery HA, Rahman MM, **Madhu P**, Khan A, Asiri AM, Mathanmohun M. Bacillus-mediated silver nanoparticle synthesis and its antagonistic activity against bacterial and fungal pathogens. Antibiotics. 2021 Nov 1;10(11):1334.	SCIE, 4.6, Q1
69.	Sri VS, Manikandan A, Mathankumar M, Tamizhselvi R, George	SCIE, 6.6, Q1

	M, Murugaiah K, Kashmery HA, Al-Zahrani SA, **Puttegowda M**, Khan A, Asiri AM. 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. 2021 Nov 1;15:99-118.	
70.	Kumari CR, Al Otaibi A, Kamaraj T, Nageshwari M, Mathubala G, Manikandan A, Caroline ML, Sudha S, Kashmery HA, **Madhu P**, Khan A. 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. 2021 Oct 14;11(10):1239.	SCIE, 2.4, Q2
71.	**Puttegowda M**, Pulikkalparambil H, Rangappa SM. Trends and developments in natural fiber composites. Applied Science and Engineering Progress. 2021 Oct 7;14(4):543-52.	Scopus, Q2
72.	Jagadeesh P, Ningappa VS, **Puttegowda M**, Girijappa YG, Rangappa SM, Khan MR, Khan I, Siengchin S. Pongamia pinnata shell powder filled sisal/kevlar hybrid composites: Physicomechanical and morphological characteristics. Polymer Composites. 2021 Sep;42(9):4434-47.	SCIE, 4.7, Q1
73.	Nagarajan KJ, Ramanujam NR, Sanjay MR, Siengchin S, Surya Rajan B, Sathick Basha K, **Madhu P**, Raghav GR. A comprehensive review on cellulose nanocrystals and cellulose nanofibers: Pretreatment, preparation, and characterization. Polymer Composites. 2021 Apr;42(4):1588-630.	SCIE, 4.7, Q1
74.	TG YG, A V, **P Madhu**, Kushvaha V, MR S, Siengchin S. A new study on flax-basalt-carbon fiber reinforced epoxy/bioepoxy hybrid composites. Polymer Composites. 2021 Apr;42(4):1891-900.	SCIE, 4.7, Q1
75.	**Madhu P**, Bharath KN, Sanjay MR, Arpitha GR, Saravanabavan D. Effect of nano fillers on glass/silk fibers based reinforced polymer composites. Materials Today: Proceedings. 2021 Jan 1;46:9032-5.	Peer reviewed
76.	Bharath KN, **Madhu P**, Yashas Gowda TG, Verma A, Sanjay MR, Siengchin S. Mechanical and chemical properties evaluation of sheep wool fiber–reinforced vinylester and polyester composites. Materials Performance and Characterization. 2021 Jan 1;10(1):99-109.	Scopus, Q2
77.	**Madhu P**, Mavinkere Rangappa S, Khan A, Al Otaibi A, Al-Zahrani SA, Pradeep S, Gupta MK, Boonyasopon P, Siengchin S. Experimental investigation on the mechanical and morphological behavior of Prosopis juliflora bark fibers/E-glass/carbon fabrics reinforced hybrid polymeric composites for structural applications. Polymer Composites. 2020 Dec;41(12):4983-93.	SCIE, 4.7, Q1
78.	**Puttegowda M**, M. Rangappa S, Khan A, Al-Zahrani SA, Al Otaibi A, Shivanna P, Moure MM, Siengchin S. Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/E-glass/carbon fabrics on potential engineering applications: effect of stacking sequence. Polymer Composites.	SCIE, 4.7, Q1

	2020 Nov;41(11):4572-82.	
79.	Bharath KN, **Madhu P**, Gowda TG, Verma A, Sanjay MR, Siengchin S. A novel approach for development of printed circuit board from biofiber based composites. Polymer Composites. 2020 Nov;41(11):4550-8.	SCIE, 4.7, Q1
80.	Bharath KN, **Madhu P**, Gowda TY, Sanjay MR, Kushvaha V, Siengchin S. Alkaline effect on characterization of discarded waste of Moringa oleifera fiber as a potential eco-friendly reinforcement for biocomposites. Journal of Polymers and the Environment. 2020 Nov;28(11):2823-36.	SCIE, 5.0, Q1
81.	**Madhu P**, Sanjay MR, Senthamaraikannan P, Pradeep S, Siengchin S, Jawaid M, Kathiresan M. Effect of various chemical treatments of Prosopis juliflora fibers as composite reinforcement: Physicochemical, thermal, mechanical, and morphological properties. Journal of Natural Fibers. 2020 Jun 2;17(6):833-44.	SCIE, 3.1, Q2
82.	**Madhu P**, Sanjay MR, Jawaid M, Siengchin S, Khan A, Pruncu CI. 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. 2020 May 1;85:106437.	SCIE, 6.0, Q1
83.	**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.	SCIE, 3.1, Q2
84.	**Madhu P**, Pradeep S, Sanjay MR, Siengchin S. Characterization of raw and alkali treated prosopis juliflora fibers for potential polymer composite reinforcement. InIOP Conference Series: Materials Science and Engineering 2019 Nov 1 (Vol. 653, No. 1, p. 012016). IOP Publishing.	Peer reviewed
85.	**Madhu P**, Sanjay MR, Pradeep S, Bhat KS, Yogesha B, Siengchin S. Characterization of cellulosic fibre from Phoenix pusilla leaves as potential reinforcement for polymeric composites. Journal of Materials Research and Technology. 2019 May 1;8(3):2597-604.	SCIE, 6.6, Q1
86.	**Madhu P**, Sanjay MR, Senthamaraikannan P, Pradeep S, Saravanakumar SS, Yogesha B. A review on synthesis and characterization of commercially available natural fibers: Part II. Journal of Natural Fibers. 2019 Jan 2;16(1):25-36.	SCIE, 3.1, Q2
87.	Athith D, Sanjay MR, Yashas Gowda TG, **Madhu P**, Arpitha GR, Yogesha B, Omri MA. Effect of tungsten carbide on mechanical and tribological properties of jute/sisal/E-glass fabrics reinforced natural rubber/epoxy composites. Journal of Industrial Textiles. 2018 Oct;48(4):713-37.	SCIE, 2.0, Q2
88.	Sanjay MR, **Madhu P**, Jawaid M, Senthamaraikannan P, Senthil S, Pradeep S. Characterization and properties of natural fiber polymer composites: A comprehensive review. Journal of Cleaner Production. 2018 Jan 20;172:566-81.	SCIE, 10.0, Q1

89.	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. International Journal of Engineering Research and General Science. 2018;6(5):43-50.	Peer Reviewed
90.	Praveenkumara J, Sunder RN, Chandan HR, Srivathsa M, **Madhu P**. Natural fibers and its composites for engineering applications: an overview. InSARC International Conference, Chennai India 2017 Dec 13.	Peer Reviewed
91.	Yashas Gowda TG, Sanjay MR, Subrahmanya Bhat K, **Madhu P**, Senthamaraikannan P, Yogesha B. Polymer matrix-natural fiber composites: An overview. Cogent Engineering. 2018 Jan 1;5(1):1446667.	Scopus, 2.5, Q2
92.	**Madhu P**. Stress analysis and life estimation of gas turbine blisk for different materials of a jet engine. International Journal of Science and Research. 2016;5(6):1103-7.	Peer Reviewed
93.	**Madhu P**, Pradeep S, Mallappa D, Manjunath H, Ningappa N, Prashant M. Electrical Power Generation by Footsteps using Piezo-electric Transducers. International Journal of Recent Trends in Engineering & Research. 2016.	Peer Reviewed

Conferences

International Conferences

1. Kiran Kumar, Pradeep S, **Madhu P**, Jeevan T. P. "Experimental Investigation of SiC/ Al_2O_3 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 atDayananda 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 2017at 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:June23-27, 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 FabricationTechniques & 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.

57. Opportunities and Challenges in Entrepreneurship, JSSATE, Science & Technology Entrepreneurship Park, Bengaluru. (NSTEDB), Dept. of Science & Technology, GOI. Duration: 3rd – 19th January 2024.
58. Advances in Materials Technology for Next Generation Manufacturing, Ballari Institute of Technology & Management, Ballari. Duration: 1st to 5th February 2024.
59. Sustainable & Eco-friendly products, Digital & E-commerce Businesses, JSSATE, Science & Technology Entrepreneurship Park, Bengaluru. (NSTEDB), Dept. of Science & Technology, GOI. Duration: 7th – 24th February 2024.
60. Brainstorming session on Intellectual Property Rights, KSCST, IISc Campus, Bengaluru in association with Vemana-KSCST IP Cell, VIT, Bengaluru. Duration: 29th February 2024.
61. IoT, Embedded Systems & AI, JSSATE, Science & Technology Entrepreneurship Park, Bengaluru. (NSTEDB), Dept. of Science & Technology, GOI. Duration: 4th – 29th March 2024.
62. GenAI, Ten Days FDP, Department of Information Science & Engineering, Vidyavardhaka College of Engineering, Mysuru. Duration: August 26th - September 5th, 2024.
63. Advanced Materials for Defence and Aerospace Applications, Ballari Institute of Technology and Management, Ballari. Duration: Jan 27 – Feb 1, 2025.
64. Microwave Processing and 3D Printing of Functional Materials – From Fundamentals to Future Technologies (ATAL FDP), K.L.S. Gogte Institute Of Technology. Duration: Feb 3 - 8, 2025.
65. Next-Gen Data Science: Deep Learning, NLP and Responsible AI, Department of CSE, CMR Institute of Technology, Bengaluru. Duration: June 16 - 20, 2025.
66. Current Trends in Metal Additive Manufacturing, Malaviya Mission Teaching Training Centre, IIT(ISM), Dhanbad, Jharkhand. Duration: July 7 - 18, 2025.

For Further Details

Google Scholar	:	https://scholar.google.co.in/citations?user=dT5VZiUAAAAJ&hl=en
Research gate	:	https://www.researchgate.net/profile/Madhu-P
Publons	:	https://publons.com/researcher/3075371/p-madhu/
Scopus	:	https://www.scopus.com/authid/detail.uri?authorId=57209185670
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I hereby declare that the above-mentioned information is true to my knowledge, and I bear the responsibility for the above-mentioned.

Madhu P