

# **Faculty Profile**



**Dr. G. BHAVESH, M.E., Ph.D.**

Assistant Professor (OG) – Department of Mechanical Engineering

## **HIGHLIGHTS:**

- Number of Journal Publications: **7**
- H-Index: **4**
- Project Funding Received: Nil
- Patents Published: Nil
- Patents Granted: Nil

## **PROFESSIONAL LINKS:**

- Scopus ID: **56362798100**
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=56362798100>
- Google Scholar ID: <https://scholar.google.com/citations?user=6bUImMoAAAAJ&hl=en>
- Anna University Faculty ID: **323984**
- AICTE Faculty ID: **1-45827794437**
- Anna University Supervisor ID: -
- LinkedIn: <https://www.linkedin.com/in/dr-ganesan-bhavesh-ph-d-b52325139/>

## **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 7 months
- Industrial Experience: Nil

## **AREA OF SPECIALIZATION:**

- Surface Engineering
- Thermal Barrier Coatings (TBCs)
- Nanomaterials Synthesis
- Corrosion Studies

## **COURSES CERTIFIED:**

- FEA USING ANSYS conducted by AU-FRG Institute.
- CAD USING CATIA conducted by AU-FRG Institute.
- Modules on TOTAL QUALITY MANAGEMENT conducted by AU-TVS Center.

## JOURNAL PUBLICATIONS:

1. **Ganesan Bhavesh\***, Perianna Hariharan, Durgalakshmi Dhinasekaran, 'Comparative Study on the Synthesis and Characterization of  $Gd_2Zr_2O_7$  Nanoparticles by Mechanical Milling and Co-Precipitation Techniques', **Ceramics International**, vol. 50 no. 15, 2024, pp.27476-27485. <https://doi.org/10.1016/j.ceramint.2024.05.047> (I.F. 5.6)
2. **Ganesan Bhavesh\***, Hariharan, P, Durgalakshmi Dhinasekaran, 'Assessment of the microstructural features and electrochemical corrosion behaviour of nanostructured  $Gd_2Zr_2O_7$  EB-PVD TBCs under three salt conditions', *Surface and Coatings Technology*, vol. 487, 2024, pp. 130991-131001. <https://doi.org/10.1016/j.surfcoat.2024.130991> (I.F. 6.1)
3. **Ganesan Bhavesh\***, Hariharan P, Durgalakshmi Dhinasekaran, "Hot corrosion studies of nanostructured gadolinium zirconate thermal barrier coatings", *Ceramics International*, Vol 47, Issue 18, (2021), pp. 25959-25972. <https://doi.org/10.1016/j.ceramint.2021.06.002> (I.F. 5.6)
4. K. Gangatharan, N. Selvakumar, P. Narayanasamy, **G. Bhavesh**, "Mechanical analysis and high temperature wear N/DLC coated titanium alloy", **Int. J. Surface Science and Engineering**, Vol. 10, Issue 1, 2016. <https://doi.org/10.1504/IJSURFSE.2016.075315> (I.F. 1.2)
5. J Venkatachalam, **G Bhavesh**, S Chinnathambi, S Ganesan, P Aruna, "Synthesis and characterization of hafnium oxide nanoparticles for bio-safety", *Mater. Express*, Vol. 4, No. 5, 2014. <https://doi.org/10.1166/mex.2014.1190>. (I.F. 1.5)
6. Hariharan P, **Bhavesh Ganesan\***, Durgalakshmi Dhinasekaran, "Microstructural Evaluation of  $Gd_2Zr_2O_7$  Thermal Barrier Coating Developed by EB-PVD Technique", All India Manufacturing Technology Design and Research 2023 (AIMTDR 23) conference. [https://doi.org/10.1007/978-981-95-2547-8\\_12](https://doi.org/10.1007/978-981-95-2547-8_12)
7. **G. Bhavesh\***, P. Deepak, D. Durgalakshmi and P. Hariharan, "Synthesis and Characterization of  $La_2Zr_2O_7$  Nanomaterials by Co-Precipitation Method for Thermal Barrier Coatings", 6th Asian Conference on Heat Treatment and Surface Engineering (HTSE), 2020.
8. Sangeethakrishnan S, Rajkeerthi E, Hariharan P, **Bhavesh G**, "Design and Development of Tool Electrode for Electrochemical Micromachining using Reverse EMM Technique". All India Manufacturing Technology Design and Research conference (AIMTDR-2018). [https://doi.org/10.1007/978-981-32-9425-7\\_30](https://doi.org/10.1007/978-981-32-9425-7_30)

## ACHIEVEMENTS AND AWARDS:

- Anna Centenary Research Fellow (ACRF), Awarded by Centre for Research, Anna University.

## PEER REVIEWER IN JOURNALS:

- Ceramics International, Elsevier (I.F. 5.6)
- Surface and Coatings Technology, Elsevier (I.F. 6.1)

**PROFESSIONAL MEMBERSHIPS:**

- The Indian Thermal Spray Association (iTSA)

**CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

- All India Manufacturing Technology Design and Research 2023 (AIMTDR 23) conference, IIT-BHU Varanasi 2023.
- 6th Asian Conference on Heat Treatment and Surface Engineering (HTSE), ASM International, Chennai 2020
- All India Manufacturing Technology Design and Research conference (AIMTDR-2018), Anna University, Chennai 2018.
- Completed GIAN course on **Laser Assisted Surface Micro and Nano Fabrication** conducted by the Department of Mechanical Engineering, Indian Institute of Technology, Indore. (July - 2018).
- Completed Short term course on **Laser Micro Manufacturing, Surface & Material Processing** conducted by the Department of Mechanical Engineering, Indian Institute of Technology, Indore (July -2020).
- Attended a workshop on **Thermal Spray Technology and Applications** conducted by the Department of Metallurgical and Materials Engineering, IIT Madras (October – 2022).
- Attended a workshop on **Advances in Digital Additive Manufacturing (ADAM)**, conducted by the Centre for Materials Joining and Research, Department of Manufacturing Engineering, Annamalai University, Chidambaram. (January - 2019).

**SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

S. No.	Project Title	Funded by	Amount in Rs.
1.	Portable Mobile Charger using the Main Spring of a Spring Driven Clock (UG-2014)	Centre for Technology Development and Transfer (CTDT), Anna University	Rs. 25,000/-
2.	Design and Development of an Abrasive Water Jet Milled Surface Without Grooves (PG-2016)	Centre for Technology Development and Transfer (CTDT), Anna University	Rs. 25,000/-