

CURRICULUM VITAE

Dr. DURGA PRASAD C, *B.E., M.Tech., MISTE, MIE, IAENG, CEng, Ph.D.-(NITK)*

s/o Channabasavaiah

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ACADEMIC PROFILE

2016- 2019	Doctor of Philosophy, Manufacturing (Mechanical Engineering), National Institute of Technology Karnataka. (NITK) Surathkal - 575025, Mangalore. Karnataka, India CGPA: 8.85/10.00
2013- 2015	Master of Technology, Manufacturing Science & Engineering (Mechanical Engineering), Siddaganga Institute of Technology (SIT) Tumakuru-572103, Karnataka, India CGPA: 9.27/10.00
2010-2013	Bachelor of Engineering, Mechanical Engineering, HMS Institute of Technology, (HMSIT), Tumakuru-572104, Karnataka, India Percentage: 74.25

PROFESSIONAL EXPERIENCE

1. July 1st 2019 to till date

Designation : Assistant Professor

Organization : RV Institute of Technology and Management, Bengaluru, Karnataka, India.

2. July 20th 2015 to June 30th 2016

Designation : Lecturer

Organization : Siddaganga Polytechnic Tumakuru, Karnataka, India.

SUBJECTS TAUGHT

- Engineering Drawing
- Mechanical Engineering Science/Elements of Mechanical Engineering
- Computer Aided Design and Computer Aided Manufacturing (CAD CAM)
- Manufacturing Process/Modern Machining Process
- Material Science and Metallurgy
- Foundry Technology/Metal casting science and Engineering
- Mechatronics
- Welding Technology
- Research Methodology and IPR/Innovation and Design Thinking

EXPERTISE

- SEM/EDS, XRD
- *In-situ* micro tensile
- Microhardness, Wear and Corrosion testing

SOFTWARE SKILLS

Data Modelling: ORIGIN, XPERT HIGH SCORE

Additional Engineering Software: ANSYS, SOLIDWORKS, SOLID EDGE, IMAGE-J

PROJECT PROFILE

- **Ph.D. Thesis Title:** Investigation on Elevated Temperature Adhesive Wear Behavior of Microwave Fused Thermal Spray Tribaloy Composite Coatings.
- **M. Tech. Project Title:** Development of Wear Resistant Coating for AISI 410 Grade Stainless Steel.
- **B.E. Mechanical Engg. Project Title:** Design and Fabrication of Air Cooler to Improve the Performance.

Funded Projects

- [1] A project on “*Development of Novel Coatings in Improving Resistance to Corrosion and Erosion using Thermal Spray Methods*” is funded by **Science and Engineering Research Board (SERB), under Core Research Grant (CRG), Department of Science and Technology, Government of India.** [Ref: CRG/2022/004140, Role: PI, Duration: 3 years, status: on-going, Budget: Rs 28, 63, 696/-].
- [2] A project on “*Thermodynamics analysis and optimization of Biomass conversion process for renewable fuel production using Artificial Intelligence*” is funded by the **University of Technology and Applied Science (UTAS), Nizwa campus.** [Role: Co-PI, Duration: 1 year, status: on-going, Budget: Rs 1, 50,000/-]. **International Collaborative research funding.**
- [3] A project on “*Prototype of Hydrogen Combustion Engine*” is funded by **Karnataka State Council for Science and Technology (KSCST), GoK, Bengaluru** [Ref: 48S_BE_3388, Role: PI, Status: on-going, Budget: Rs. 7,500].
- [4] A project on “*Improvement of Mechanical and Microstructural Properties of Al-Cu-Li alloy Processed by Multi Axial Forging Technique under Cryogenic Conditions for Lightweight Applications*” is funded by **Visvesvaraya Technological University (VTU), Belagavi under Research Grant Scheme (RGS) Government of Karnataka** during the year 2021-2022. [Ref.: VTU/BGM/Aca/A-12/VTU RGS/DIS-ME/2021-22/5862/11]. (Role: Co-PI, Status: Completed, Budget: Rs 9, 00, 000/-).
- [5] A project on “*Development of Tribological and Tribo-Corrosion Resistant Stellite Based Composite Coatings using Hybrid Process of Flame Spraying and Microwave Heating for Processing of Arecanut*” is funded by **Visvesvaraya Technological University (VTU), Belagavi under Research Grant Scheme (RGS) Government of Karnataka** during the year 2021-2022.

[Ref.: VTU/BGM/Aca/A-12/VTU RGS/DIS-ME/2021-22/5862/38]. (Role: Co-PI, Status: Completed, Budget: Rs 8, 00, 000/-).

[6] A project on *“Development of High Temperature Wear and Tribo-Corrosion Resistant of Triballoy Reinforced Fly-ash/Carbides Cladding on Steel Substrate through Microwave Hybrid Heating”* is funded by Visvesvaraya Technological University (VTU), Belagavi, under Teqip 3.0 **Competitive Research Funding Scheme Government of Karnataka** during the year 2019-2020. [Ref.: VTU/TEQIP 3/2019/321]. (Role: PI, Status: Completed, Budget: Rs 2, 00, 000/-).

[7] A Project on *“Design and Fabrication of Sanitizer Chamber and Foot Operated Hand Wash to Combat COVID-19”* is funded by Visvesvaraya Technological University (VTU), Belagavi under Teqip 3.0 **Innovative Ideas and Research Projects to Curb COVID-19 Government of Karnataka** during the year 2020-2021. [Ref.: VTU/TEQIP 3/2020/26]. (Role: PI, Status: Completed, Budget: Rs 65,000/-).

PATENTS

1. *“Nano-Structured Coating Device”*, Design Application Number: 486252-001, Dated: 05.01.2026, (Status: Filed). Dated: 23/01/2026
2. *“Liquid cooling casing for EV Battery Thermal Management”*, Design Application Number: 432387-001, Dated on 01.10.2024 (Status: Granted).
3. *“IoT-Based Smart Multi-pump Control Console”*, Design Application Number: 432384-001, Dated on 01.10.2024 (Status: Published).
4. *“Liquid Cooled DC Fast Charging Station for Electric Vehicles and Integrated Environmental Data Acquisition Device”*, Design application number: 435134-001, Dated on 01.10.2024 (Status: Granted).
5. **Dr. Durga Prasad C**, *“Investigation of Cyclic Oxidation and Corrosion Behaviour of Plasma-Sprayed NiCrAlY/Cr₃C₂/h-BN/SiC Coatings on T22 Boiler Steel Alloy”*. Application No. 202441048038, Intellectual Property of India (Status: Published). Utility patent
6. **Durga Prasad Channabasavaiah**, *“De-Weeding Machine”* Application No. 202441002012, Intellectual Property of India (Status: Filed). Utility patent
7. **Durga Prasad Channabasavaiah**, *“AN IOT-BASED SMART FLEXIBLE AIR PURIFIER SYSTEM”* Application No.202341079755, Intellectual Property of India (Status: Published). Utility patent.

SUPERVISION OF STUDENTS

Ph.D.: 01 awarded and 02 ongoing.

B.E/B.Tech: 15 batches completed.

PUBLICATIONS

JOURNAL(S)

1. Virupaksha L, Yogesha K B, **C. Durga Prasad**, *et al.*, “Evaluation of Plasma-Sprayed NiCrAlY/Cr₃C₂/h-BN Coatings Oxidation Behavior on T22 Boiler Steel Alloy”, *Surface Science and Technology*, Springer, (Status: Accepted for publication, Q4, Web of Science and Scopus).
2. A. Rajesh Kannan, **C. Durga Prasad**, *et al.*, “ Hot oxidation and corrosion resistance of nickel-based superalloy Inconel 617 fabricated by wire arc additive manufacturing for power plant applications”, *Materials Characterization*, Elsevier Science, (2026), 116075, <https://doi.org/10.1016/j.matchar.2026.116075>. (Q1, IF: 5.5, SCI/Web of Science/Scopus).
3. **C. Durga Prasad** *et.al*, “Characterization and Wear Behavior of Plasma Sprayed Hard-Faced Silicon Carbide Coatings on AISI 410 Steel Substrate”, *Journal of Materials Science: Materials in Engineering*, Springer, vol. 20, 89 (2025). <https://doi.org/10.1186/s40712-025-00286-9> (Q2, Web of Science & Scopus).
4. **C. Durga Prasad** *et al.* “Investigation of Microstructural and Hot Corrosion Behaviour of CoMoCrSi/WC–12Co Microwave Cladding on Titanium Substrate”, *Journal of Bio- and Tribo-Corrosion*, Springer, vol. 11, 76 (2025). <https://doi.org/10.1007/s40735-025-00997-8>, (Q2, IF: 3.31, Scopus).
5. Shanmugam, B.K., Hanumanthappa, H., **C. Durga Prasad** *et al.*, “Separator equipment performance of iron ore and coal using experimental and ANN-based analysis”. *Scientific Reports*, Springer, vol. 15, 18197 (2025). <https://doi.org/10.1038/s41598-025-02681-w>, (Q1, IF: 3.8, Web of Science/Scopus).
6. Raju G S, Paul Vizhian S, Vijay Kumar, **C. Durga Prasad** *et al.*, “Optimizing Manufacturing Plant Layouts Using AI and Heuristic Algorithms”, *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Springer, (2025). <https://doi.org/10.1007/s12008-025-02298-3> (Q2, IF: 2.2, Web of Science/Scopus).
7. Madhu Sudana Reddy G, **C. Durga Prasad** *et al.*, “Investigation of hot corrosion behavior of plasma sprayed cermet composite coatings on titanium and special steel alloys”, *Surface and Coatings Technology*, Elsevier Science, vol 499, (2025), 131883, ISSN 0257-8972, <https://doi.org/10.1016/j.surfcoat.2025.131883> (Q1, IF: 6.1, SCIE/Scopus).
8. Virupakshappa Lakkannavar, K.B. Yogesha, **C. Durga Prasad**, *et al.*, “Evaluation of mechanical, metallurgical, and hot corrosion-erosion behavior of plasma sprayed Ni₂₂Cr₁₀Al_{0.8}Y/30 %Cr₃C₂ /10 %h-BN/10 %Mo composite coating” *Surface and Coatings Technology*, Elsevier Science, vol. 497, (2025), 131730, ISSN 0257-8972, <https://doi.org/10.1016/j.surfcoat.2025.131730>. (Q1, IF: 6.1, SCIE/Scopus).
9. Rajesh Kannan, A, Rajkumar, V, **C. Durga Prasad**, *et al.*, “Microstructure and Hot Oxidation Resistance of Wrought and Wire Arc Additive Manufactured Austenitic Stainless Steel 347. *Steel*

Research International, Wiley. 2400715. (2024), <https://doi.org/10.1002/srin.202400715> (Q2, IF: 1.9, SCI/SCIE/Scopus).

10. Harish Hanumanthappa, Bharath Kumar Shanmugam, Mona Kumari, Amit Kumar, **C. Durga Prasad**, *et.al.*, “Comparison of the performance of indirect evaluation of flank wear for turning Inconel- 718 using the processed image and acoustic waves”, *Surface Review and Letters*, (2024) <https://doi.org/10.1142/S0218625X24400031> (Q2, IF: 1.15, SCI/SCIE).
11. Viraja Deshpande, P. N. Jyothi, H. B. Shivaprasad, Veerasha Gouder & **C. Durga Prasad**. “Physico-Chemical Properties of Bio-Oils as Cutting Fluids: A Comparative Investigation”. *Journal of Bio- and Tribo-Corrosion*, Springer, vol. 11, 7 (2025). <https://doi.org/10.1007/s40735-024-00927-0>, (Q2, IF: 3.31, Scopus).
12. **C. Durga Prasad.**, Tiwari, A., Suryawanshi, S.R. *et al.*, “Overview of thermal spray coating on additive manufacturing”. *Progress in Additive Manufacturing*, Springer (2024). <https://doi.org/10.1007/s40964-024-00869-6>, (Q1, IF: 5.4, ESCI & Scopus).
13. Virupakshappa Lakkannavar, Yogesha K B, **C. Durga Prasad**, Srinivasa G, Mahantayya Mathapati, “Assessment of the Microstructure, Adhesion and Elevated Temperature Erosion Resistance of Plasma-Sprayed NiCrAlY/Cr₃C₂/h-BN Composite Coating”, *Results in Surfaces and Interfaces*, Elsevier Science, vol. 17, (2024), pp100289, ISSN 2666-8459, <https://doi.org/10.1016/j.rsurfi.2024.100289> (Q2, Scopus).
14. Virupakshappa Lakkannavar, K. B. Yogesha, **C. Durga Prasad**, “Investigation of Cyclic Oxidation and Hot Corrosion Behaviour of Plasma-Sprayed NiCrAlY/Cr₃C₂/h-BN/Mo Coatings on T22 Boiler Steel Alloy”. *Journal of Bio- and Tribo-Corrosion*, Springer, vol. 10, 85 (2024). <https://doi.org/10.1007/s40735-024-00890-w> (Q1, IF: 3.31, Scopus).
15. Siddesh Kumar N G, R Suresh, **C Durga Prasad**, *et al.*, “Study on Tool Wears in Turning Al2219, Unhybrid and Hybrid Metal Matrix Nano Composites By CCD Design of Experiment”, *Part C: Journal of Mechanical Engineering Science*, (2024), vol. 238 (24): 11235-11253, <https://doi.org/10.1177/09544062241278127> (Q2, IF: 2.0, SCI/Scopus)
16. Virupakshappa Lakkannavar, K.B. Yogesha, **C. Durga Prasad**, *et al.*, “Investigation of cyclic oxidation and corrosion behavior of plasma-sprayed NiCrAlY/Cr₃C₂/h-BN coatings on T22 boiler steel alloy”, *Surface and Coatings Technology*, Elsevier Science, vol. 492, (2024), pp 131205, ISSN 0257-8972, <https://doi.org/10.1016/j.surfcoat.2024.131205>. (Q1, IF: 6.1, SCIE/Scopus).
17. Virupakshappa Lakkannavar, Yogesha K.B., **C. Durga Prasad**, *et al.*, “Thermal Spray Coatings on High-Temperature Oxidation and Corrosion Applications – A comprehensive review, *Results in Surfaces and Interfaces*, Elsevier Science, vol. 15, (2024), pp 100250, ISSN 2666-8459, <https://doi.org/10.1016/j.rsurfi.2024.100250> (Q2, Scopus, IF:4.4),
18. **C. Durga Prasad**, *et al.*, “Studies on wear and microstructure assessment of WC-Co reinforced iron based HVOF coating”, *Results in Surfaces and Interfaces*, Elsevier Science, vol. 15, (2024), pp 100237, ISSN 2666-8459, <https://doi.org/10.1016/j.rsurfi.2024.100237>. (Q2, Scopus, IF:4.4),

19. Suresh Kumar S, Raviprakash M, **C Durga Prasad**, *et al.*, “Oxidation Characteristics of Thermal Sprayed Cobalt - Based Superalloy Coatings: A Review”, *Surface Review and Letters*, (2024), <https://doi.org/10.1142/S0218625X24300119> (Q2, IF: 1.15, SCI/SCIE/Scopus).
20. Suresh Kumar S, **C Durga Prasad**, *et al.*, “Numerical Analysis of Thermal Spray Coatings Using Artificial Neural Networks (ANN) Overview”, *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Springer, (2024), <https://doi.org/10.1007/s12008-024-01881-4> (Q2, IF: 2.2, Web of Science/Scopus).
21. Ramesh M R, Subbarao Medabalimi, R Suresh Kumar, **C Durga Prasad**, “Cyclic Oxidation and Hot Corrosion Behaviour of HVOF Sprayed NiCrAl Coating on Industrial Boiler Tube Steels”, *JOM The Journal of The Minerals, Metals & Materials Society (TMS)*, Springer, vol. 76, pp 3172–3184, (2024), <https://doi.org/10.1007/s11837-024-06526-1>, (Q2, IF: 2.937, SCI/SCIE/Scopus).
22. N. G. Siddeshkumar, **C. Durga Prasad**, *et al.*, “Investigation of Mechanical and Metallurgical Properties of Friction Welded Joints for Dissimilar Metals (HSS M2 and EN8 Steel)” *Journal of The Institution of Engineers (India): Series D*, Springer, (2024). <https://doi.org/10.1007/s40033-024-00658-z>, (Q2, Scopus)
23. **Durga Prasad Channabasavaiah**, Shashank Karigowda, Bhakthi Bhandari Yashas Gupta, Arkesh Prasannakumar, Shreyas Govindappa, “Design and fabrication of air cooler to improve its performance”, *AIP Conf. Proc.* 20 February 2024; 2986 (1): 030145. <https://doi.org/10.1063/5.0192440>
24. Virupakshappa Lakkannavar, Yogesha K B, **C Durga Prasad**, *et al.*, “A Review on Tribological and Corrosion Behavior of Thermal Spray Coatings”, *Journal of The Institution of Engineers (India): Series D*, Springer, (2024). <https://doi.org/10.1007/s40033-024-00636-5>, (Q2, Scopus).
25. Suresh Kumar S, **C Durga Prasad**, Harish Hanumanthappa, “Role of Thermal Spray Coatings on Erosion, Corrosion, and Oxidation in Various Applications: A Review”, *Journal of Bio- and Tribo-Corrosion*, Springer, vol. 10, 22 (2024). <https://doi.org/10.1007/s40735-024-00822-8>, (Q2, IF: 3.31, Scopus).
26. N. G. Siddeshkumar, R. Suresh, **C. Durga Prasad**, L. Shivaram, N. H. Siddalingaswamy, “Evolution of the Surface Quality and Tool Wear in the High Speed Turning of Al2219/n-B₄C/MoS₂ Metal Matrix Composites”, *International Journal of Cast Metals Research*, Taylor and Francis, (2023), vol. 37, Issue: 1. <https://doi.org/10.1080/13640461.2023.2285177>, (Q2, SCI, IF: 1.4).
27. **C. Durga Prasad**, *et al.*, “Investigations on Tribological and Microstructure Characteristics of WC-12Co/FeNiCrMo Composite Coating by HVOF Process”. *JOM The Journal of The Minerals, Metals & Materials Society (TMS)*, Springer, vol. 76, pp 186–195, (2024). <https://doi.org/10.1007/s11837-023-06242-2> (Q2, IF: 2.937, SCI/SCIE/Scopus).

28. Santhosh Gotaganaki, Vardhaman S. Mudakappanavar, R. Suresh & **C. Durga Prasad**, “Studies on the Mechanical Properties and Wear Behavior of an AZ91D Magnesium Metal Matrix Composite Utilizing the Stir Casting Method”, *Metallography, Microstructure, and Analysis*, Springer, vol. 12, pp 986–998, (2023). <https://doi.org/10.1007/s13632-023-01017-2>, (Q2, IF: 1.6, Scopus).
29. **C. Durga Prasad**, *et al.*, “Characterisation and wear behaviour of SiC reinforced FeNiCrMo composite coating by HVOF process”, *Transactions of the IMF*, Taylor and Francis, 102:1, 22-28 (2024), <https://doi.org/10.1080/00202967.2023.2246259>, (Q2, IF: 1.679, SCI),
30. Sharanabasava H, Raviprakash M, **C Durga Prasad**, M. R. Ramesh, *et al.*, “Microstructure, Mechanical and Wear Properties of SiC and Mo Reinforced NiCr Microwave Cladding”, *Advances in Materials and Processing Technologies*, Taylor and Francis, (2023), vol. 10, issue: 4, pp 3620-3633 (<https://doi.org/10.1080/2374068X.2023.2257937>, Q2, IF: 2.37, Scopus).
31. A. Rajesh Kannan, **C. Durga Prasad**, *et al.*, “Hot Oxidation and Corrosion Behaviour of Boiler Steel Fabricated by Wire Arc Additive Manufacturing”, *Materials Characterization*, Elsevier Science, Volume 203, September (2023), 113113, <https://doi.org/10.1016/j.matchar.2023.113113>, (Q1, IF: 5.5, SCI)
32. Giridhar S. Kulkarni, N. G. Siddeshkumar, **C. Durga Prasad**, Latha Shankar & R. Suresh, “Drilling of GFRP with Liquid Silicon Rubber Reinforced with fine Aluminium Powder on Hole Surface Quality and Tool Wear using DOE”, *Journal of Bio- and Tribo-Corrosion*, Springer, vol. 9, Article number: 53 (2023), <https://doi.org/10.1007/s40735-023-00771-8>, (Q2, IF: 3.31, Scopus),
33. Sudheer D Kulkarni, Manjunatha, Chandrasekhar U, K V Manjunath, **C Durga Prasad**, “Design and Optimization of Polyvinyl-Nitride Rubber for Tensile Strength Analysis”, *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Springer, (2023), <https://doi.org/10.1007/s12008-023-01405-6>, (Q2, IF: 2.2, Web of Science/Scopus).
34. Madhu Sudana Reddy G, **C. Durga Prasad**, *et al.*, “Investigation of High Temperature Erosion Behaviour of NiCrAlY/TiO₂ Plasma Coatings on Titanium Substrate”, *JOM The Journal of The Minerals, Metals & Materials Society (TMS)*, Springer, vol. 75, pp 3317–3323, (2023) <https://doi.org/10.1007/s11837-023-05894-4>, (Q2, IF: 2.937, SCI/SCIE).
35. K. Shanthala M., Ajit M. Hebbale, **C. Durga Prasad**, *et al.*, “Analysis of High Velocity Forming of Metallic Tubes”, *Materials Today Proceedings*, Elsevier Science, (2023) In Press, <https://doi.org/10.1016/j.matpr.2023.04.647>
36. Madhusudana Reddy G, **C Durga Prasad**, Pradeep Patil, Naresh Kakur, and Ramesh M R, “High Temperature Erosion Performance of NiCrAlY/Cr₂O₃/YSZ Plasma Spray Coatings”, *Transactions of the IMF*, Taylor and Francis, (2023), <https://doi.org/10.1080/00202967.2023.2208899>, (Q2, IF: 1.679, SCI),

37. M. Muralidhar Singh, Ajit M. Hebbale, C. Durga Prasad, *et al.*, “Design and Simulation of Vertical Axis Windmill for Streetlights”, *Materials Today Proceedings, Elsevier Science*, (2023) **In Press**, <https://doi.org/10.1016/j.matpr.2023.03.729>
38. Sharanabasva H, C Durga Prasad, Ramesh M R, “Characterization and Wear Behavior of NiCrMoSi Microwave Cladding”, *Journal of Materials Engineering and Performance*, Volume 33, pages 763–775 (2024), <https://doi.org/10.1007/s11665-023-07998-z> (Q2, IF: 2.1, SCI/Scopus).
39. A. Rajesh Kannan, V. Rajkumar, C. Durga Prasad, N. Siva Shanmugam, Jonghun Yoon, Microstructure and hot corrosion performance of stainless steel 347 produced by wire arc additive manufacturing, *Vacuum, Elsevier Science* (2023), 111901, ISSN 0042-207X, <https://doi.org/10.1016/j.vacuum.2023.111901>. (Q1, IF: 3.9, SCI).
40. Madhusudana Reddy G, C Durga Prasad, Pradeep Patil, Naresh Kakur, and Ramesh M R, “Investigation of Plasma Sprayed NiCrAlY/Cr₂O₃/YSZ Coatings on Erosion Performance of MDN 420 Steel Substrate at Elevated Temperatures”, *Int. J. of Surface Science and Engineering*, (2023), Vol. 17, No. 3, pp.180–194. <http://dx.doi.org/10.1504/IJSURFSE.2023.10054266>, (Q2, IF: 1.1, SCI).
41. Sharanabasva H, C Durga Prasad, Ramesh M R, “Effect of Mo and SiC reinforced NiCr Microwave Cladding on Microstructure, Mechanical and Wear Properties”, *Journal of The Institution of Engineers (India): Series D, Springer*, (2023). <https://doi.org/10.1007/s40033-022-00445-8>, (Q2, Scopus).
42. Nithin H S, Nishchitha K M, Pradeep D G, Durga Prasad C, Mahantayya Mathapati, “Comparative Analysis of CoCrAlY Coatings at High Temperature Oxidation Behavior Using Different Reinforcement Composition Profiles”, *Welding in the World, Springer*, vol. 67, pp 585–592, (2023) <https://doi.org/10.1007/s40194-022-01405-2>, (Q1, IF: 2.2, SCI)
43. Venkate Gowda, Harish Hanumanthappa, Bharath Kumar Shanmugam, C Durga Prasad, T. N. Sreenivasa, M S Rajendra Kumar. “High-Temperature Tribological Studies on Hot Forged Al6061- TiB₂ In-Situ Composites”, *Journal of Bio and Tribo-Corrosion, Springer*, 8, 101 (2022). <https://doi.org/10.1007/s40735-022-00699-5>, (Q1, IF 3.11, Scopus).
44. Madhusudana Reddy G, C Durga Prasad, Gagan Shetty, Ramesh M R, Nageswara Rao T, and Pradeep Patil, “Investigation of Thermally Sprayed NiCrAlY/TiO₂ and NiCrAlY/Cr₂O₃/YSZ Cermet Composite Coatings on Titanium Alloys”. *Engineering Research Express, IOP*, Vol 4, 025049, <https://doi.org/10.1088/2631-8695/ac7946>, (Q3, IF: 1.5, Scopus/ESCI).
45. Madhusudana Reddy G, C Durga Prasad, Pradeep Patil, Naresh Kakur, and Ramesh M R, “Elevated Temperature Erosion Performance of Plasma Sprayed NiCrAlY/TiO₂ Coating on MDN 420 Steel Substrate”, *Surface Topography: Metrology and Properties, IOP*, 10, 025010, (2022), <https://doi.org/10.1088/2051-672X/ac6a6e>, (Q2, IF: 2.1, SCIE).

46. Madhusudana Reddy G, **C Durga Prasad**, Gagan Shetty, Ramesh M R, Nageswara Rao T and Pradeep Patil. "High Temperature Oxidation Behavior of Plasma Sprayed NiCrAlY/TiO₂ & NiCrAlY /Cr₂O₃/YSZ Coatings on Titanium Alloy". *Welding in the World*, Springer, (2022) <https://doi.org/10.1007/s40194-022-01268-7>, (Q1, IF: 2.4, SCI)
47. Thavaraya Naik, Mahantayya Mathapathi, **C Durga Prasad**, Nithin H S and M. R. Ramesh, "Effect of Laser Post Treatment on Microstructural and Sliding Wear Behavior of HVOF Sprayed NiCrC and NiCrSi Coatings". *Surface Review and Letters*, Vol. 29, No. 1 (2022) 225000, <https://doi.org/10.1142/S0218625X2250007X>, (Q2, IF: 1.15, SCI/SCIE),
48. Madhusudana Reddy G, **C Durga Prasad**, Gagan Shetty, Ramesh M R, Nageswara Rao T and Pradeep Patil. "High Temperature Oxidation Studies of Plasma Sprayed NiCrAlY/TiO₂ & NiCrAlY /Cr₂O₃/YSZ Cermet Composite Coatings on MDN-420 Special Steel Alloy". *Metallography, Microstructure and Analysis*, Springer, vol. 10, pp 642–651 (2021) <https://doi.org/10.1007/s13632-021-00784-0>, (Q2, Scopus)
49. Mahantayya Mathapati, Kiran Amate, **C Durga Prasad**, Jayavardhana M L, Hemanth Raju T, "A Review on Fly ash Utilization". *Materials Today Proceedings, Elsevier Science*, Vol. 50, Part 5, 2022, pp 1535-1540. <https://doi.org/10.1016/j.matpr.2021.09.106>
50. Rayirth Dinesh, Rohan Raykar S, Rakesh T L, Prajwal M G, Shashank Lingappa M and **Durga Prasad C**. "Feasibility study on MoCoCrSi/ WC-Co cladding developed on austenitic stainless steel using microwave hybrid heating". *Journal of Mines, Metals & Fuels*, Volume 69, Issue 12A, December 2021, <https://doi.org/10.18311/jmmf/2021/30113>
51. **C. Durga Prasad**, Shashank Lingappa, Sharnappa Joladarashi, M. R Ramesh, Sachin B, "Characterization and Sliding Wear Behavior of CoMoCrSi+Flyash Composite Cladding Processed by Microwave irradiation", *Materials Today Proceedings, Elsevier Science*, vol 46, (2021), pp 2387-2391, <https://doi.org/10.1016/j.matpr.2021.01.156>
52. G. Madhu, K. M. Mrityunjaya Swamy, Durga Ajay Kumar, **C. Durga Prasad**, and U Harish, "Evaluation of hot corrosion behavior of HVOF thermally sprayed Cr₃C₂ -35NiCr coating on SS 304 boiler tube steel", *American Institute of Physics*, 2316, 030014 (2021); <https://doi.org/10.1063/5.0038279>
53. Madhu Sudana Reddy, **C Durga Prasad**, Pradeep Patil, M. R. Ramesh, Nageswara Rao, "Hot corrosion behavior of plasma sprayed NiCrAlY/TiO₂ and NiCrAlY/Cr₂O₃/YSZ cermets coatings on alloy steel", *Surfaces and Interfaces, Elsevier Science*, 22 (2021) 100810. <https://doi.org/10.1016/j.surfin.2020.100810>, (Q1, IF 6.137, Scopus).
54. **C. Durga Prasad**, Sharnappa Joladarashi, M. R. Ramesh, M. S. Srinath, "Microstructure and Tribological Resistance of Flame Sprayed CoMoCrSi/WC-CrC-Ni and CoMoCrSi/WC-12Co Composite Coatings Remelted by Microwave Hybrid Heating". *Journal of Bio and Tribo-Corrosion, Springer*, (2020), 6:124, <https://doi.org/10.1007/s40735-020-00421-3>, (Q1, IF: 3.11).

55. **C. Durga Prasad**, Sharnappa Joladarashi, M. R Ramesh, “Comparative Investigation of HVOF and Flame Sprayed CoMoCrSi Coating”. *American Institute of Physics*, 2247, 050004 (2020) <https://doi.org/10.1063/5.0003883>
56. **C. Durga Prasad**, Akhil Jerri, M. R. Ramesh, “Characterization and Sliding Wear Behavior of Iron Based Metallic Coating Deposited by HVOF Process on Low Carbon Steel Substrate”. *Journal of Bio and Tribo-Corrosion, Springer*, 6, 69 (2020). <https://doi.org/10.1007/s40735-020-00366-7>, (Q1, IF: 3.11).
57. **C. Durga Prasad**, Sharnappa Joladarashi, M. R. Ramesh, M. S. Srinath, B. H. Channabasappa. “Comparison of High Temperature Wear Behavior of Microwave Assisted HVOF Sprayed CoMoCrSi-WC-CrC-Ni/WC-12Co Composite Coatings”. *Silicon, Springer*, 12, pp 3027–3045 (2020) 1-19 <https://doi.org/10.1007/s12633-020-00398-1>, (Q2, IF 2.941, SCIE).
58. **C. Durga Prasad**, Sharnappa Joladarashi, M. R. Ramesh, M. S. Srinath, B. H. Channabasappa. “Effect of Microwave Heating on Microstructure and Elevated Temperature Adhesive Wear Behavior of HVOF Deposited CoMoCrSi-Cr₃C₂ Composite Coating”. *Surface and Coatings Technology, Elsevier science*, 374, (2019), 291–304 <https://doi.org/10.1016/j.surfcoat.2019.05.056>, (Q1, IF 5.4, SCI).
59. **C. Durga Prasad**, Sharnappa Joladarashi, M. R. Ramesh, M. S. Srinath, B. H. Channabasappa. “Development and Sliding Wear Behavior of Co-Mo-Cr-Si Cladding through Microwave Heating”. *Silicon, Springer*, 11, (2019), 2975-2986, <https://doi.org/10.1007/s12633-019-0084-5> (Q2, IF 2.941, SCIE).
60. **C. Durga Prasad**, Sharnappa Joladarashi, M. R. Ramesh, M. S. Srinath, B. H. Channabasappa. “Microstructure and Tribological Behavior of Flame Sprayed and Microwave Fused CoMoCrSi/CoMoCrSi-Cr₃C₂ Coatings”. *Materials Research Express, IOP*, 6 (2019):026512, <https://doi.org/10.1088/2053-1591/aaebd9>, (Q2, IF: 1.8, SCIE).
61. **C. Durga Prasad**, Sharnappa Joladarashi, M. R. Ramesh, M. S. Srinath, B. H. Channabasappa. “Influence of Microwave Hybrid Heating on the Sliding Wear Behaviour of HVOF Sprayed CoMoCrSi Coating”. *Materials Research Express, IOP*, 5 (2018):086519, <https://doi.org/10.1088/2053-1591/aad44e>, (Q2, IF: 1.8, SCIE).
62. **C. Durga Prasad**, Sharnappa Joladarashi, M. R Ramesh, Anunoy Sarkar. “High Temperature Gradient Cobalt based Clad Developed Using Microwave Hybrid Heating”. *American Institute of Physics*, 2018, 1943, 020111 <https://doi.org/10.1063/1.5029687>.
63. Girisha K G, K.V.Sreenivas Rao, **Durga Prasad C**, “Slurry Erosion Resistance of Martenistic Stainless Steel with Plasma Sprayed Al₂O₃-40%TiO₂ Coatings”, *Materials Today Proceedings 5* (2018) 7388–7393. <https://doi.org/10.1016/j.matpr.2017.11.409>
64. Girisha K.G, **Durga Prasad C**, Anil K.C and K.V Sreenivas Rao, “Dry sliding wear behaviour of Al₂O₃ coatings for AISI 410 grade stainless steel” , *Applied Mechanics and Materials*, Vol 766-767 (2015) 585-589. <https://doi.org/10.4028/www.scientific.net/AMM.766-767.585>

65. Girisha K.G, Rakesh. R, **Durga Prasad C** and K.V Sreenivas Rao, “Development of corrosion resistance coating for AISI 410 grade steel” , *Applied Mechanics and Materials*, Vol 813-814 (2015) 135-139. <https://doi.org/10.4028/www.scientific.net/AMM.813-814.135>
66. **C Durga Prasad**. “Design and Fabrication of Integrated Sanitizer Chamber to Combat COVID-19”. *Public Health, Elsevier Science (Status: Under review)*.

Edited Books:

1. R Suresh, **C. Durga Prasad**, Satish Kumar, Bharath K.N., Ajith G. Joshi, Edited a book on “*Light Weight Materials for Electric Vehicles: Sustainable Materials, Production Process, and Modeling Techniques*”, CRC Press, Taylor & Francis Group, ISBN 9781032975054, (2025), <https://doi.org/10.1201/9781003596097> (Scopus indexed).

Text Books:

1. **Durga Prasad Channabasavaiah**, Harish Hanumanthappa, “*Fundamentals of Mechanical Engineers for Beginners*”, Lambert Academic Publishing, ISBN: 978-620-5-63373-1, (2023).
2. **Dr. Durga Prasad Channabasavaiah**, Dr. Sanman Shivakumar, Dr. Shadakshari R, “*Basics of Material Science and Engineering*”, Lambert Academic Publishing, ISBN: 978-620-6-14919-4, (2023).

Book Chapters:

1. **C. Durga Prasad** et al. “Role of Artificial Intelligence in Industry 4.0 Manufacturing Systems and Sustainability Applications”, is accepted for publication in a book titled “*Smart Integration of AI in Additive Manufacturing*”, Springer Nature, (2026). (Scopus indexed).
2. **C. Durga Prasad** et al. “Exploring Practical Applications of AI in Additive Manufacturing through Case Studies”, is accepted for publication in a book titled “*Smart Integration of AI in Additive Manufacturing*”, Springer Nature, (2026). (Scopus indexed).
3. **C. Durga Prasad et al.**, “Role of Additive Manufacturing and Thermal Spray Processed Materials in Electric Vehicles (EVs) and Hybrid Electric Vehicles (HEVs) Applications”, accepted for publication in a book titled “*Light Weight Materials for Electric Vehicles: Sustainable Materials, Production Process, and Modeling Techniques*”, CRC Press, Taylor & Francis Group, ISBN 9781032975054, (2026), <https://doi.org/10.1201/9781003596097> (Scopus indexed).
4. **C. Durga Prasad et al.**, “Effect of Sustainable Materials to Combat Friction and Wear Behaviour in EVs and HEVs Components using Advanced Surface Processing Techniques”, accepted for publication in a book titled “*Light Weight Materials for Electric Vehicles: Sustainable Materials, Production Process, and Modeling Techniques*”, CRC Press, Taylor & Francis Group, ISBN 9781032975054, (2026), <https://doi.org/10.1201/9781003596097> (Scopus indexed).

5. **C. Durga Prasad** et al. “Investigation of Mechanical and Metallurgical Properties of HEAs processed using Directed Energy Deposition Methods”, is accepted for publication in a book titled “*High Energy Deposition Methods*”, Springer Nature, (2025). (Scopus indexed).
6. Sudarshan, T.A. **C. Durga Prasad** et al. (2026). Study the Effects of Fenugreek Biodiesel and Its Blend on Performance and Emission Characteristics of Diesel Engine. “*Artificial Intelligence in the Digital Era*”. Studies in Systems, Decision and Control, vol 594. ISBN 978-3-031-89771-9, Springer, Cham. https://doi.org/10.1007/978-3-031-89771-9_133 (Scopus indexed).
7. Nagabhushana, N. **C. Durga Prasad** et al. (2026). Studies on Hybrid Solar Water Heating System. “*Artificial Intelligence in the Digital Era*”. Studies in Systems, Decision and Control, vol 594. ISBN 978-3-031-89771-9, Springer, Cham. https://doi.org/10.1007/978-3-031-89771-9_153 (Scopus indexed).
8. Moorthi, V. **C. Durga Prasad** et al. (2026). Operation of a Multi-cylinder Diesel Engine Fueled with Schleichera Oleosa Bio-diesel and Conventional Fuel. “*Artificial Intelligence in the Digital Era*”. Studies in Systems, Decision and Control, vol 594. ISBN 978-3-031-89771-9, Springer, Cham. https://doi.org/10.1007/978-3-031-89771-9_154 (Scopus indexed).
9. **C. Durga Prasad** et al., “Role of Silicon Based Coatings to Combat High Temperature Oxidation and Corrosion Material Degradations” in a book titled “*Thermal Spray Coatings for High temperature conditions*”, CRC Press, Taylor & Francis Group, ISBN 9781003542957, (2025), <https://doi.org/10.1201/9781003542957> (Scopus indexed).
10. **C. Durga Prasad** et al., “Applications of Silicon-Based Coatings in Industrial High-Temperature Environments”, in a book titled “*Thermal Spray Coatings for High temperature conditions*”, CRC Press, Taylor & Francis Group, ISBN 9781003542957, (2025), <https://doi.org/10.1201/9781003542957> (Scopus indexed).
11. **C. Durga Prasad**, et al., “Development of MoCoCrSi/Flyash Composite Cladding on Stainless Steel Substrate through Microwave Irradiation”, in a book titled “*Thermal Claddings for Engineering Applications*”, CRC Press, Taylor & Francis Group, ISBN 9781032460543, (2024), <https://doi.org/10.1201/9781032713830> (Scopus indexed).
12. **C. Durga Prasad**, Mahantayya Mathapathi, Hitesh Vasudev and Lalit Thakur, “Analysis of Mechanical Properties and Microstructural Characterisation of Microwave Cladding on Stainless Steel”, in a book titled “*Advances in Microwave Processing for Engineering Materials*”, CRC Press, Taylor & Francis Group, ISBN: 9781003248743, (2022), <https://doi.org/10.1201/9781003248743> (Scopus indexed).
13. **C. Durga Prasad**, Mahantayya Mathapathi, Sharanappa Joladarashi, M. R. Ramesh, “Investigation of Microstructural and Tribological Behavior of Metco 41C+WC-12Co Composite Coating Sprayed by HVOF Process”, in a book titled “*Thermal Spray Coatings*”. CRC Press, Taylor and Francis Group, ISBN: 9781032081489. (2021) <https://doi.org/10.1201/9781003213185> (Scopus indexed).

14. **C. Durga Prasad**, Akhil Jerri, M. R. Ramesh, "Evaluation of Microstructural and Dry Sliding Wear Resistance of Iron-Based SiC-Reinforced Composite Coating by HVOF Process", in a book titled "*Thermal Spray Coatings*". **CRC Press, Taylor and Francis Group. ISBN: 9781032081489.** (2021), <https://doi.org/10.1201/9781003213185> (Scopus indexed).
15. Sachin B, Charitha M Rao, Gajanan M Naik, **Durga Prasad C**, Ajit M Hebbale, Vijeesh V, Muralidhara Rao, "Minimum quantity lubrication and cryogenic for burnishing of difficult to cut material as a sustainable alternative", **Lecture Notes in Mechanical Engineering**. Springer, ISBN - 978-981-16-2278-6, (2021), https://doi.org/10.1007/978-981-16-2278-6_6 (Scopus indexed).

Conferences:

1. Suresh Kumar S and **C.Durga Prasad**, "Thermal Stability and Oxide Growth Analysis of HVOF Deposited CoMoCrSi (Tribology) Coatings", presented at *International Conference on Applied Sciences and Advanced Materials (ICASAM 2025)* organized by BNM Institute of Technology, Bengaluru on 28/11/2025.
2. Yashas Guptha Dheemanth, Arkesh P, Narendra, **C. Durga Prasad**, "Study on mechanical and temperature resistance of Co-Mo-Cr-Si+Al₂O₃ composite coatings on hydrogen tank applications" *National Conference Digital Technology & Engineering*, RVITM, Bengaluru, 2024.
3. Darshan J, Harsha S, Rohan Sanjeeva, **C. Durga Prasad**, Manish Kumar, "Development of NiCr microwave cladding on stainless steel substrate", *National Conference Digital Technology & Engineering*, RVITM, Bengaluru, 2024.
4. Rohith P, Dhanush Gowda N, Varun M, **C. Durga Prasad**, Muralidhar Singh M, "Studies on Oxidation & Hot Corrosion Behaviour on Cobalt based Microwave Cladding" *National Conference, Digital Technology & Engineering*, RVITM, Bengaluru, 2023
5. Pradhan Shrinivas Kamath, Mukunda K, Rohit Kumar, **C. Durga Prasad**, Harish Hanumanthappa, "Synthesis of BNiO₃ Nano-Composites for Photocatalytic Hydrogen Production", *National Conference, Digital Technology & Engineering*, RVITM, Bengaluru, 2023.
6. Angadh Purushothama, Sunil S K, Aprameya C R, Abhay Surya Mahesh, Manoj Gowda, Shashank Karigowda, **C Durga Prasad**, "Zero-Energy Buildings-A New Advancement on Energy Saving" *14th International Conference on Materials Processing and Characterization*, 24-26th March 2023, GRIET, Hyderabad.
7. M Arunadevi, Monisha Rani, Sibinraj R, Chandru M K, **C Durga Prasad**, "Comparison of K-Nearest Neighbour & Artificial Neural Network prediction in the mechanical properties of Aluminum alloys", *14th International Conference on Materials Processing and Characterization*, 24-26th March 2023, GRIET, Hyderabad.
8. Pushpa N, Venkate Gowda C, **Durga Prasad C**, Harish H, Bharath Kumar Shanmugam, "Characterization of Polymer Matrix with Tectona Grandis and Tamarind Natural Fiber Hybrid

Composite", *14th International Conference on Materials Processing and Characterization*, 24-26th March 2023, GRIET, Hyderabad.

9. **Durga Prasad C**, Shashank Karigowda, Yashas Gupta B, Arkesh P, Shreyas G, Sampath Kumar R and Pardeep Singh, "Design and fabrication of Air cooler to improve its performance" in *3rd International Conference on Functional Materials, Manufacturing and Performances (ICFMMP)* at Lovely Professional University, Phagwara, Punjab, on 29th to 30th July 2022.
10. **Durga Prasad C**, Sampath Kumar R, Yashas Gupta B, Shashank Karigowda, Arkesh P, Shreyas G, "Development and Characterization of MoCoCrSi/Flyash Microwave Cladding on Stainless Steel" in *International Conference on Sustainable Materials, Manufacturing & Industrial Engineering (ICSMMIE-2022)* at SIT Tumakuru on 01 to 02 July 2022.
11. **C Durga Prasad**, "Microstructural and Sliding Wear Investigation of Co-based Microwave Cladding on Stainless Steel", presented at *2nd International Tribology Research Symposium (ITRS)* at SRM Institute of Science and Technology 08-10 December, 2021.
12. Mahantayya Mathapati, Kiran Amate, **C Durga Prasad**, Jayavardhana M L, Hemanth Raju T, "A Review on Fly ash Utilization". Presented at *2nd International Conference on Functional Materials, Manufacturing and Performances ICFMMP-2021* at Department of Mechanical Engineering, Lovely University. 17-18 September, 2021.
13. Rayirth Dinesh, Rohan Raykar S, Rakesh T L, Prajwal M G, Shashank Lingappa M and **Durga Prasad C**. "Feasibility study on MoCoCrSi/ WC-Co cladding developed on austenitic stainless steel using microwave hybrid heating". *International Conference (Virtual) on Technological Innovations in Mechanical Engineering (TIME-2021)* at Department of Mechanical Engineering (School of Engineering & Technology), Sharda University, Greater Noida, Uttar Pradesh, India-201310 Conference Date: April 16 & 17, 2021.
14. Lokesh Paradeshi, **Durga Prasad C**. "Second Law Thermodynamic Analysis of a Direct Expansion Solar Assisted Heat Pump System using R1270". *International Conference on Energy & Environment (ICEE 2021)* Jyothi Engineering College, Thrissur District, Kerala 679531, India. April 09-10, 2021.
15. Lokesh Paradeshi, **Durga Prasad C**. "Experimental investigation of R1270 in a direct expansion solar assisted heat pump system". *International Conference on Energy & Environment (ICEE 2021)* Jyothi Engineering College, Thrissur District, Kerala 679531, India. April 09-10, 2021.
16. Mahantayya Mathapati, Kiran Amate, **C Durga Prasad**, Jayavardhana M L, Hemanth Raju T, "A Review on Fly ash Utilization". Presented at *3rd International virtual Conference on Advances in Mechanical Engineering and Nanotechnology (ICAMEN 2021)* at Department of Mechanical Engineering, Manipal University Jaipur. March 18-19 2021.
17. **C. Durga Prasad**, Shashank Lingappa, Sharnappa Joladarashi, M. R Ramesh, Sachin B, "Characterization and Sliding Wear Behavior of CoMoCrSi+Flyash Composite Cladding Processed by Microwave irradiation", presented at *International Conference on Smart and*

Sustainable Developments in Materials, Manufacturing and Energy Engineering, December 22-23 2020, NMAM Institute of Technology Karnataka, India.

18. Sachin B, Charitha M Rao, Gajanan M Naik, **Durga Prasad C**, Ajit M Hebbale, Vijeesh V, Muralidhara Rao, “Minimum quantity lubrication and cryogenic for burnishing of difficult to cut material as a sustainable alternative”, presented at *National conference on Sustainable Machining Strategies for Better Performance*, 27-28 November 2020, NMAM Institute of Technology, Nitte.
19. Angadh Purushothama, Abhay Surya Mahesh and **Durga Prasad C**, “Zero-Energy Buildings-A New Advancement on Energy Saving”, presented at *International Conference on “Recent Advances on Renewable Energy (Rare-2020)”* 7-9th Feb, 2020, NITK Surathkal, Karnataka, India.
20. Angadh Purushothama, Abhay Surya Mahesh and **Durga Prasad C**, “Sustainable Building and Energy Conservation”, presented at *International Conference on Advances in Materials, Ceramics & Engineering Sciences*, (AMCES 2020), 17-18th Jan 2020, DSCE, Bengaluru.
21. Madhu G, Mrityunjaya Swamy K M, Ajay Kumar B S, **Durga Prasad C** and Harish U, “Evaluation of Hot Corrosion Behavior of HVOF Thermally Sprayed Cr₃C₂-35NiCr Coating on SS 304 Boiler Tube Steel”, presented at *International Conference on Advanced Trends in Mechanical and Aerospace Engineering (ATMA-2019)*, 7-9th November 2019, Dayananda Sagar University, School of Engineering, Bengaluru.
22. **C. Durga Prasad**, Sharnappa Joladarashi, M. R Ramesh, “Comparative Investigation of HVOF and Flame Sprayed CoMoCrSi Coating”, presented at *International Conference on Design, Materials and Manufacture (ICDEM 2019)* 6-8th December, 2019, NITK Surathkal, Karnataka, India.
23. **C. Durga Prasad**, Sharnappa Joladarashi, M. R Ramesh, Anunoy Sarkar. “High Temperature Gradient Cobalt based Clad Developed Using Microwave Hybrid Heating”, presented at *International Conference on Design, Materials and Manufacture (ICDEM 2018)* January 29-31, 2018, NITK Surathkal, Karnataka, India.
24. **Durga Prasad C**, Sharnappa J, Ramesh M R, Srinath M S Channabasappa B H. “Development of Triballoy Co-Mo-Cr-Si Cladding through Microwave Heating and its Characterization”, presented at *International Conference on Advances in Materials & Processing: Challenges & Opportunities (AMPCO 2017)* Nov. 29-Dec 2, 2017, IIT Roorkee, India.
25. **C D Prasad**, Sharnappa Joladarashi, M R Ramesh, B H Channabasappa. “Effect of Intermetallic Laves Phases on Elevated Temperature Wear Behavior of HVOF Sprayed Co-Mo-Cr-Si Coating”, presented at *TACT2017 International Thin Films Conference* Oct. 15–18, 2017, National Dong Hwa University, Hualien, Taiwan.
26. Girisha K G, K.V.Sreenivas Rao, **Durga Prasad C**, “Slurry Erosion Resistance of Martenistic Stainless Steel with Plasma Sprayed Al₂O₃-40%TiO₂ Coatings”, presented at *International Conference on Emerging Trends in Materials and Manufacturing Engineering*, March 10-12, 2017, NIT Trichy, Tamilnadu, India.

27. **Durga Prasad. C**, Girisha. K.G, and K.V. Sreenivas Rao, “Experimental investigation of wear resistance of Al₂O₃ coatings for AISI 410 grade stainless steel”, presented at (*MOMENTUM-2015*) March 31, 2015 , Siddaganga Institute of Technology, Tumakuru.
28. **Durga Prasad. C**, “Design and fabrication of Air cooler to improve its performance”, presented at (ISTC- 2014), HMSIT, Tumakuru.

Note: Soft copy for each article as mentioned above can be provided on request.

INVITED TALKS

1. Delivered a technical talk on “Research Paper and Thesis Writing” at the Department of Mechanical Engineering, *Sri Siddartha School of Engineering, Tumakuru* on 29/11/2025.
2. Delivered a technical talk on “Current Innovations in Mechanical Engineering” at the Department of Mechanical Engineering, *Siddaganga Polytechnic, Tumakuru* on 25/06/2025.
3. Delivered a technical talk on “Role of Materials Science in Advanced Engineering Applications” at the Department of Mechanical Engineering, *Siddaganga Polytechnic, Tumakuru* on 13/07/2023.
4. Delivered an online technical talk on “Effect of Microwave Hybrid Heating on Thermal Spray Coatings” at Department of Automobile Engineering, *The Oxford College of Engineering, Bengaluru* on 23/02/2022.
5. Delivered an online technical talk on “Effect of Post heat treatment on Thermal Spray Coatings” at Department of Mechanical Engineering, *The Oxford College of Engineering, Bengaluru* on 08/07/2021.
6. Delivered an online technical talk on “Microwave fused thermal spray coatings” at the Department of Mechanical Engineering, *National Institute of Technology Karnataka Surathkal* on 16/02/2021
7. Delivered online seminar on “Microwave fused thermal spray coatings” at *Center for Design, Manufacturing & Materials of Skolkovo Institute of Science & Technology, Moscow, Russia.* 09/12/2020.
8. Delivered a technical talk on Advanced Manufacturing Process at Department of Mechanical Engineering, *Siddaganga Polytechnic, Tumakuru* on 10/07/2019.

ONLINE COURSES COMPLETED

1. Completed online course on **Master thesis writing in Microsoft Word** conducted by Udemy.
2. Completed online course on **COVID-19 contact tracing** conducted by Johns Hopkins University via COURSERA, June 2020.
3. Completed online technical course on **Thermal Spray Coatings** conducted by MEC Jodhpur, India, May 2020.

EVENTS ORGANIZED

1. **Faculty Coordinator for organizing** the ANRF (SERB)- DST, GoI-sponsored National Level Two-Day Faculty Development Programme (FDP)/Workshop on “Emerging Trends in Mechanical Engineering: Bridging the Gap with Interdisciplinary Technologies” held on 25th & 26th Sept. 2025, at RV Institute of Technology and Management (RVITM), Bengaluru.
2. Organized online webinar on “**Role of Mechanical Engineers in an Aerospace Domain**” in association with Hindustan Aeronautics Limited, Bengaluru for 2nd and 4th semester Mechanical Engineering students, at RV Institute of Technology and Management on 26/05/2021.
3. Organized online webinar on “**Corrosion issue of Engineering Materials in Industries**” in association with National Institute of Technology Karnataka Surathkal for Students/Research scholars/Faculty/Industry persons on 22/05/2021.
4. Organized online webinar on “**What Industry needs from Engineering Graduates**” in association with Conceptia Software Technologies Pvt Ltd, Bengaluru for 3rd semester Mechanical Engineering students, at RV Institute of Technology and Management on 27/01/2021.
5. Organized online technical talk on “**Role of Mechanical Engineer in an Industry**” for 3rd semester Mechanical Engineering students, RV Institute of Technology and Management on 12/10/2020.
6. Organized two days hands on **Robotics workshop** jointly with Loginware Pvt Ltd on October 19th -20th 2019 at RV Institute of Technology and Management, Bengaluru.
7. Organized one day **Entrepreneurship workshop** in association with IIT Bombay E-cell organized on 9/11/2019 at RV Institute of Technology and Management, Bengaluru.

FDPs/WORKSHOP/TRAININGS

1. Participated and completed successfully SERB Sponsored 7-days Karyashala workshop Program, on "*Advanced Technology for Materials Physics and Engineering*" from January 20-26, 2022, at **Indian Institute of Technology Indore.**
2. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary Five-day FDP on "*Processing of Novel Materials*" from 22/11/2021 to 26/11/2021 at **Indian Institute of Technology (Bhu) Varanasi.**
3. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary Five days FDP on "*Advances in Novel Composite Materials: Fabrication, Analysis and Optimization*" from 06/09/2021 to 10/09/2021 at **National Institute of Technology Patna.**
4. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "*Energy Conversion and Storage Devices*" from 01/07/2021 to 05/07/2021 at **Indian Institute of Technology Hyderabad.**
5. Participated in the AICTE sponsored QIP Short Term Course on "*4D Printing on Smart Manufacturing*" from 28/06/2021 to 03/07/2021 (One Week) Conducted online by Mechanical Engineering Department **National Institute of Technical Teachers Training and Research, Chandigarh.**

6. Participated in three days online workshop on ***“Sustainability in materials, manufacturing and logistics: opportunities & challenges”*** organized by Department of Industrial Engineering and Management, Siddaganga Institute of Technology, Tumakuru during 20-22 September 2021.
7. Participated in five days FDP Program on ***“Recent Development in renewable energy Technology for Sustainable Energy”*** conducted by Mechanical Department A.J. Institute of Engineering and Technology, Mangaluru, during 12-16th July 2021.
8. Attended five days QIP Short Term Course on ***“Mechanical Behaviour of Materials”*** organized by IIT Kanpur from 15-20 March 2021.
9. Attended five days National E-Workshop on ***“Design and Manufacturing of Advanced Materials”*** held on Feb 15th to 19th 2021 at NITK Surathkal.
10. Attended five days FDP on ***“Advances in Materials and Manufacturing Engineering”*** organized by the Department of Mechanical Engineering in association with ISTE Faculty Chapter of SMVITM from 28th December 2020 to 01st January 2021.
11. Attended five days FDP on ***“Moodle and its features”*** organized by RV College of Engineering Bengaluru from 27th - 31st July 2020.
12. Attended one week FDP on ***“Renewable Energy application & Entrepreneurship”*** organized by SSBTs college of Engineering & Technology Bambhori, Jalgaon (M.S) India during 26th-30th May 2020.
13. Attended one week FDP on ***“Emerging areas in Manufacturing”*** held during 25th-30th May 2020 organized by Vimal Jyothi Engineering College Kannur Kerala.
14. Attended one week FDP on ***“Novel Materials and its Industrial applications”*** from 13th-18th May 2020 organized by Centre of excellence Karpagam college of Engineering, Coimbatore.
17. Participated in two days national workshop on ***“Tribology Frontiers in Design & Manufacturing”*** Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal during 24-25, October 2017.
18. Participated in two days national workshop on ***“Advances in Stress Analysis & Dynamics”*** Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal during 16-17, March 2017.
19. Participated in three days national workshop on ***“Laser Processing of Materials”*** Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal during 9-11, March 2017.
20. Participated in a national workshop on ***“Simulation of Manufacturing Processes”*** Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal 25th Feb 2017.
21. Participated course on ***“Hybrid Composites Manufacturing, Mechanics and Materials”*** Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal during 18-22, December 2016 Sponsored by **GIAN, MHRD, GOI.**

22. Participated in three days national workshop on “*Thin film Surface Coating & Characterization*” held at Central Manufacturing Technology and Institute (CMTI) Bangalore during 5-7 October 2016.
23. Participated in three days national workshop on “*Advanced Materials & Manufacturing*” Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal during 28-30, September 2016.
24. Participated in two days national workshop on “*Computational Dynamics*” Sponsored by TEQIP-II held at Dept. of Mechanical Engineering, National Institute of Technology Karnataka (NITK), Surathkal during 26-27, September 2016.

PROFESSIONAL MEMBERSHIP

- Member of the Indian Society of Technical Education (MISTE) ID: **136000**
- Member of Institution of Engineers (IEI) ID: **M-1795635**
- International Association of Engineers (IAENG): **505973**
- Chartered Engineer (lifetime): ID: **M-1795635**

REVIEWER FOR THE JOURNALS

- Surface and Coatings Technology (**Elsevier Science**)
- Surface Engineering (**Taylor and Francis**)
- Advances in Materials and Processing Technologies (**Taylor and Francis**)
- Journal of Non-Crystalline Solids (**Elsevier Science**)
- Materials Communication (**Elsevier Science**)
- Metallography, Microstructure, and Analysis (**Springer**)
- Materials Research Express (**IOP Science Publisher**)
- Journal of Materials Engineering and Performance (**Springer**)
- International Journal on Interactive Design and Manufacturing (**Springer**)
- Metallography, Microstructure, and Analysis (**Springer**)
- Journal of The Institution of Engineers Series D (**Springer**)

RESEARCH INTEREST

- Thermal Spray Coatings, Wear, Erosion, Abrasion, Oxidation, Hot Corrosion & Tribo-corrosion
- Additive Manufacturing, Welding, Machining and Composite Materials
- Advanced Materials Characterization and Microwave Processing of Materials
- Castings, Bio-fuels & Bio-composites.

ACHIEVEMENTS

- **Enlisted in Top 2% Scientist globally, according to Stanford University, USA and Elsevier Science for the year 24-25. Indian Rank: 379th out of 6,239.**
- **Enlisted in Top 2% Scientist globally, according to Stanford University, USA and Elsevier Science for the year 23-24. Indian Rank: 306th out of 5,351.**
- **Enlisted in Top Scientist globally, according to AD Scientific index for the year 2023-2024 and 2024-2025.**
- Received the **Academic Excellence award (TOP PERFORMER)** for the year **2024-2025** from **Rashtrereya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.

- Received the **Academic Achiever award** for the year **2024-2025** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Excellence award (TOP PERFORMER)** for the year **2023-2024** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Excellent Performer award (TOP PERFORMER)** for the year **2022-2023** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Excellence award** for the year **2022-2023** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Excellence award** for the year **2021-2022** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Excellence award** for the year **2020-2021** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Excellence award** for the year **2019-2020** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Received the **Academic Achiever award** for the year **2019-2020** from **Rashtreeya Sikshana Samithi Trust (RSST)**, RV Educational Institutions.
- Recipient of Summer Research Fellow 2020 by **IASc-INSA-NASI**.
- Fastest submission of **Ph.D. thesis** in the duration of **2 years 3 months** at **NITK Surathkal**
- **MHRD** scholarship for pursuing **Ph.D.** at **NITK-Surathkal**.

PERSONAL DETAILS

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Certified that the information given and being submitted here is true to the best of my knowledge.

Durga prasad.c

(Durga Prasad C)