



From the Desk of the Editor in Chief

It gives me an immense pleasure to welcome you to “*Sustainable Manufacturing and Foundry Practices*” (SMFP). This journal has been conceived at a time when manufacturing and foundry industries across the world are rethinking their approaches to grow efficiently with a prime goal towards sustainable development. The increasing demand for sustainable processes, cleaner technologies, and responsible use of resources calls for thoughtful research and meaningful knowledge exchange. This journal seeks to serve as a trusted platform for this purpose.

Manufacturing and foundry practices have always played a vital role in industrial and economic development. Today, their future depends on how effectively sustainability is integrated into design, production, and management. The journal aims to bring together researchers, academicians, and industry professionals who are working towards improving manufacturing systems while reducing environmental impact. By encouraging high quality research and practical insights, we hope to support the transition towards more responsible and resilient industrial practices.

The Indian Institute of Foundrymen (IIF) having a glorious legacy of attachment to the metal casting industry adds significant value to this initiative. The Institute has a long and respected history of supporting foundry education, research, and industry engagement. Publishing services are facilitated by Spectrum Journals (Powered by Sage). It also reflects our commitment to fostering closer interaction between academia and industry.

The journal is designed to connect “*the lab to ladle*” covers a wide range of topics related to sustainable manufacturing and foundry practices. These include energy efficient processes, green foundry technologies, circular economy approaches, advanced materials and composites, waste reduction strategies, and the application of digital manufacturing technologies to improve sustainability in production systems. We aim to publish work that is not only theoretical but also economically viable and practically applicable. We encourage contributions that are original, well structured, and address current challenges faced by the



manufacturing and foundry sectors from solidification science to the development of sustainable binders and coatings, integration of Cyber physical systems, Industrial AI /IIOT and human centric innovation.

Maintaining high academic standards is central to the journal's mission. All submissions are carefully reviewed to ensure originality, technical quality, and ethical integrity. The editorial team is committed to a fair and transparent **double anonymised peer review process** that ensures every article – whether original research paper or an industry case studies. SMFP is proud to launch as a premier Open Access journal with Zero Publication Charges for authors.

I warmly invite researchers and practitioners from across the globe to contribute to this journal and to engage with the knowledge it shares. Through collective effort and shared commitment, this journal aims to contribute meaningfully to the advancement of sustainable manufacturing and foundry practices, and to support a more responsible industrial future.

Dr. Goutam Sutradhar

Editor in Chief

Sustainable Manufacturing and Foundry Practices

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