

Special Issue

High-Performance Metal Additive Manufacturing, 2nd Edition

Message from the Guest Editor

In this Special Issue, we seek to present a comprehensive collection of research articles, reviews, and case studies that highlight the state-of-the-art techniques, novel materials, in/ex situ material characterization, process optimization, modelling and simulation, and applications in metal AM, with a specific focus on achieving high-performance outcomes for strategic sectors, including the aerospace, marine, automotive, and energy industries. We encourage submissions that cover a wide range of topics, including, but not limited to, the following:

- Design methodologies for high-performance metal parts using AM techniques.
- Advanced metal powders and alloys tailored for AM, specifically metal matrix composites and smart alloys.
- Process optimization and control strategies to enhance mechanical, chemical, and physical properties, as well as the surface finish of additively manufactured parts.
- Novel post-processing techniques for improving the performance of additively manufactured metal components, particularly in extreme environments.
- Real-world applications of high-performance metal AM in diverse sectors.

Guest Editor

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Deadline for manuscript submissions

31 March 2026



Journal of Manufacturing and Materials Processing

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.2



mdpi.com/si/222520

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Materials Processing*
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About the Journal

Message from the Editor-in-Chief

Journal of Manufacturing and Materials Processing (JMMP) (ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP*.

Editor-in-Chief

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