

## Special Issue

# Innovations in Laser-Assisted Machining for Precision and Efficiency

### Message from the Guest Editors

Laser-assisted machining (LAM) is an advanced hybrid manufacturing process that integrates high-energy laser heating with conventional cutting operations to enhance efficiency, precision, and the processing of materials. These advantages allow for the high-precision processing of difficult-to-cut materials (e.g., titanium alloys, nickel alloys, ceramics, and composites) that are common in the aerospace, automotive, and biomedical industries. Recent advances in laser sources, beam delivery, and process modeling have expanded LAM's capabilities and flexibility, aligning perfectly with JMMP's focus on innovative manufacturing processes and the advanced processing of materials. We welcome contributions focused on topics such as the following:

- Laser-assisted cutting processes (turning, milling, drilling, grinding) and hybrid machining systems;
- Thermal modeling and control of laser-material interactions in machining;
- Cutting tool design, tool wear, and surface/subsurface integrity;
- Process monitoring, sensing, and adaptive control for laser-assisted machining;
- Applications and case studies in aerospace, biomedical, energy, micro/nano-manufacturing, and other high-tech fields.

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### Guest Editors

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### Deadline for manuscript submissions

30 June 2026



## Journal of Manufacturing and 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*.

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### Editor-in-Chief

Prof. Dr. Steven Y. Liang

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