

## Special Issue

# Advanced Design, Manufacturing, and Applications of Precision Machine Tools

### Message from the Guest Editor

The pursuit of ultra-high precision and efficiency in modern manufacturing demands continuous innovation in machine tool design, fabrication, and application. This Special Issue focuses on cutting-edge technologies in precision machine tool development, including high-stiffness structural design, thermal error compensation, vibration suppression, advanced control systems, and smart monitoring. Additionally, it explores their applications in critical sectors such as aerospace, automobiles, microelectronics, and medical device manufacturing. We invite original research and reviews addressing challenges in machining accuracy, dynamic performance optimization, energy-efficient machining, and digital twin integration. Contributions may cover theoretical advances, experimental validations, or industrial case studies.

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### Guest Editor

Dr. Jun Zha  
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### Deadline for manuscript submissions

30 June 2026



## Journal of Manufacturing and Materials Processing

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an Open Access Journal  
by MDPI

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Impact Factor 3.3  
CiteScore 5.2



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).