

Special Issue

Next-Generation Machine Tools and Machining Technology

Message from the Guest Editors

This special issue will focus on cutting-edge research in next-generation machine tools and machining technologies, including:

- **Efficient Data Interaction:** Enhancing sensor configurations and CNC controller performance for seamless data flow to support flexible production.
- **Intelligent Monitoring:** Developing robust systems for real-time perception and diagnosis of machine tools and personnel status.
- **AI and Digital Twins:** Creating predictive models using advanced AI for low-latency interaction between virtual and real machining systems.
- **Less-Manned/Unmanned Systems:** Innovating automated machining units for small batch, high-value parts in aerospace and other sectors.
- **Green Manufacturing:** Promoting sustainable practices through precise cooling, carbon emission control, and waste recycling.
- **High-Performance Cutting:** Integrating energy fields to improve efficiency and surface integrity in difficult-to-machine materials.

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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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