Special Issue

New Trends in Precision Machining Processes

Message from the Guest Editors

This Special Issue is dedicated to the latest advancements and innovations in precision machining and its impact on the production of high-quality components. The collection of articles in this issue addresses a range of topics, including the development of new machining processes, the application of advanced materials, and the integration of cutting-edge technologies. Topics include, but are not limited to, the following:

- Hybrid machining processes;
- Ultra-precision machining;
- High-precision machine tools;
- Modeling and simulation of machining processes;
- Micro and nano machining;
- Machining of novel materials like composites, ceramics, and superalloys;
- Automation and robotics in precision machining;
- Implementation of artificial intelligence and machine learning for process optimization and predictive maintenance;
- Enhancing the sustainability of precision machining processes through the reduction in waste and energy consumption;
- Eco-friendly cutting fluids and lubrication methods;
- Practical applications of precision machining in various industries, such as aerospace, automotive, and biomedical engineering.

Guest Editors

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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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