

Special Issue

Precision and Ultra-Precision Machining Technology and Its Applications

Message from the Guest Editor

Precision and ultra-precision machining technology has been used widely in manufacturing many mission-critical components for various industrial areas. This collection aims to provide updates on the research in advanced abrasive processing technology and its applications. The scope of this Special Issue includes, but is not limited to, the following topics:

- Precision and ultra-precision machining technology in semiconductor, optical, photovoltaic and other fields;
- The basic theories of precision and ultra-precision machining, such as cutting, grinding, lapping, polishing, etc.;
- The modeling, simulation, and optimization of precision and ultra-precision machining processes;
- Multi-energy-field-assisted precision and ultra-precision machining technology;
- The surface integrity of precision and ultra-precision machining and its detection and control technology;
- Precision and ultra-precision machining tools and equipment;
- Intelligent manufacturing technology and equipment for precision and ultra-precision machining;
- Other related precision and ultra-precision machining technologies.

Guest Editor

Dr. Yufei Gao

School of Mechanical Engineering, Shandong University, Jinan 250061, China

Deadline for manuscript submissions

closed (20 May 2025)



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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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