Special Issue

Advances in Ultra Precision Machining and Manufacturing Processes in Materials Sciences

Message from the Guest Editors

Materials science is witnessing a rapid shift towards utilizing advanced alloys and composites, particularly in high-performance sectors like aerospace. This Special Issue focuses on the latest advancements in precision machining and manufacturing advanced alloys and composites. It aims to bring together leading academic scientists, researchers, and scholars to share their research experiences and experimental results. The goal is to create a comprehensive interdisciplinary platform for presenting cutting-edge innovations, discussing emerging trends, and addressing practical challenges in precision manufacturing. We invite the submission of original research papers, short communications, and review articles that explore various aspects of precision and ultraprecision manufacturing technologies. Topics of interest include, but are not limited to: Precision and ultraprecision manufacturing technologies for advanced alloys and composites; Advances in precision machinery; Surface integrity and microstructure evolution; Mechanics and modeling of precision forming and machining processes.

Guest Editors

Dr. Junfeng Xiang

Dr. Dong Han

Dr. Lingchao Meng

Dr. Jie Yi

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

mdpi.com/journal/materials

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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