Special Issue

Advances in Precision Machining and Additive Manufacturing

Message from the Guest Editors

Precision machining includes micro-machining and ultra-micro machining, finishing, and other processing technologies and has been widely used in industrial robot manufacturing and machine tools and equipment. Additive manufacturing (AM) can manufacture solid objects by stacking special metal materials, non-metal materials, and medical biomaterials layer by layer, using methods such as extrusion, sintering, melting, light curing, spraying, etc., via software and numerical control systems. This Special Issue will focus on new ideas of precision machining methods and additive manufacturing technology. The topics discussed here will not only focus on various precision machining methods and their machining mechanisms, typical aspects machining accuracy and machining quality evaluation, and innovative new precision machining technologies but also on cutting-edge innovative research on various hot topics, such as the forming mechanisms of additive manufacturing materials, the microstructure and mechanical properties of additive manufacturing parts, and the additive manufacturing technology of new materials.

Guest Editors

Dr. Xuelong Wen

Dr. Chongjun Wu

Dr. Chen Li

Dr. Guijian Xiao

Deadline for manuscript submissions

closed (20 October 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/161266

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)