

New Cutting Techniques for Improved Machining

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Deadline for manuscript
submissions:

closed (20 September 2022)

Message from the Guest Editor

Dear Colleagues,

In today's level of materials engineering and production technologies, materials prepared by additive technologies that are specific for their physical, chemical, and mechanical properties, progressive composite materials and a large group of biocompatible materials, production and processing is difficult. The quality of the machined surface is one of the basic indicators of how to analyze and evaluate the machined surface in terms of its quality parameters, the compliance of the required properties with reality, and maintaining the required service life of machine parts based on defined parameters.

Topics:

Additive technologies and their influence on
machinability.

Analysis of surface quality.

Design of cutting tools.

Finishing.

Influence of the chemical and mechanical properties on
materials machinability.

New trends in machining and finishing.

New types of cutting materials.

Study of the machining environment.

The economic and environmental aspects of machining.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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