Special Issue

New Cutting Techniques for Improved Machining

Message from the Guest Editor

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.

Guest Editor

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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