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Advanced Machining Processes of Metals and Alloys

Guest Editor:

Dr. Agostino Maurotto
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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

Recently, advancement and innovation in materials technological applications have resulted in the discovery of new materials with improved thermal, corrosion, and mechanical resistance characteristics. Difficult-to-machine materials, such as super-alloys, refractory alloys, high-entropy alloys, and other technologically innovative materials, have rendered traditional machining techniques costly and obsolete.

The manufacture of these advanced alloys uses a synergy of different machining processes to obtain optimal results. These processes employ electrical, mechanical, chemical, and thermal sources of energy, or a combination, to obtain results that respond to today's stringent design requirements.

Dr. Agostino Maurotto
Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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