



Machining and Finishing Processes for Metals

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Deadline for manuscript
submissions:
closed (31 January 2023)

Message from the Guest Editor

Machining technologies are the most widely used production technologies. By using mechanical, thermal or chemical energy, they are capable of providing a high energy density, thus enabling the machining of difficult-to-cut materials, parts with complex geometries and narrow tolerances, micro parts, as well as the realization of specific production features at acceptable production rates and high-quality levels. In order to improve the aesthetic appeal of machined products; enhance their mechanical, tribological or electrical properties; and remove any possible defects or non-conformances, machining processes are usually followed by finishing processes such as grinding, honing, polishing, lapping, blasting, plating, coating, heat treating, advanced super finishing processes, etc. Considering the processes can be highly complex, scientific studies are striving for a better understanding of the underlying physical phenomena.

This Special Issue kindly invites researchers from the aforementioned fields to present new theoretical or experimental results and recent advancements in the form of research articles and reviews.





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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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Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

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