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Laser Structuring for Development of Metallic Surfaces

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Deadline for manuscript submissions:
closed (15 March 2023)

Message from the Guest Editor

Dear Colleagues,

Laser structuring is a promising method for improving various properties of metallic surfaces or inducing novel properties that the surface does not initially have by itself. This Special Issue aims to present the latest research on laser surface structuring processes and their related technology for improving the properties of metallic surfaces. Novel findings and applications of this topic include, but are not limited to, the laser surface modification of metals for reducing friction, retaining lubricants, diffracting lights in optical applications, and inducing hydrophobic/hydrophilic features. Contributions to the characterization of laser-structured surfaces and subsurfaces, as well as their advanced characterizing techniques in terms of metallurgical microstructures, damage, and changes of mechanical and chemical properties, are invited for this Special Issue. Recent advances in surface structuring processes performed by other high-energy beam techniques are also welcome.

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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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