



Kinetic Surface Treatments

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Message from the Guest Editors

Dear Colleagues,

Processes and treatments able to modify the properties of the free surface of a solid body are gaining ever-increasing attention, both in academia and in the industrial world. This is due to the importance of the surface in determining the overall properties of manufactured parts, and to the possibility of creating functional and multifunctional surfaces and coatings, through application of adapted surface treatments.

These processes are very promising from different points of view; to mention a few, they are less energy demanding, do not have toxic residuals, can be applied to temperature-sensitive materials, and generally promote higher production rates.

This Special Issue aims to cover the modelling, design and characterization of surfaces and material treated by kinetic surface treatments (including cold spray, severe shot peening, SMAT, surface burnishing and many others) are welcome. In particular, high quality articles addressing technological advancements and new treatments, new fields of applications, application to new materials, advanced characterization methods and review articles are strongly encouraged.





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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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