Special Issue

Surface Engineering and Coating Tribology

Message from the Guest Editor

The progressive wear of moving parts and components under operation conditions results in a decline in performance, efficiency, and functions. Damaged components need to be repaired or replaced with new ones, which requires temporarily shutting down the machine or the entire technological process. The drive to increase efficiency across most industrial sectors contributes to ever more challenging materials functionality. For example, in aero engines, the path to increased performance requires turbines to operate at higher temperatures, and the blades need to be able to withstand extreme conditions at the physical limits of conventional applied materials for that to be so. Therefore, there is a growing need to identify new and advanced structural and tool materials options, as well as methods of their production and processing. In this Special Issue of *Metals*, we welcome articles that focus on the relationships between the process, structure, properties, and tribological performance of metal-based coatings developed by various surface engineering processes. Prof. Sima Alidokht

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2024)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/148094

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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