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Electrochemical Deposition and Characterization of Metallic Materials

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Deadline for manuscript submissions:
closed (20 April 2024)

Message from the Guest Editor

Dear Colleagues

Electrodeposition is a widely used method of obtaining metals and alloys of desired morphological and structural characteristics and finds use at both nano and micro levels. Morphology, as the most important characteristic of electrodeposited metals and alloys, depends on parameters and regimes of electrodeposition.

All existing industries, but also other areas like medicine, use the products of electrodeposition. Although electrodeposition processes from aqueous electrolytes are still the most commonly used processes for commercial purposes, processes of electrodeposition from melt, ionic liquids and deep eutectic solvents (DES) are finding increasing application.

This Special Issue will focus on both fundamental and applied aspects of the electrodeposition processes. Reports on morphological and structural characterization of electrodeposited metals and alloys, such as optical microscopy (OM), scanning electron microscopy (SEM), atomic force microscopy (AFM), transmission electron microscopy (TEM), X-ray diffraction (XRD), X-ray photoelectron spectroscopy (XPS) and others, are 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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Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

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