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Electrodeposition as a Convenient Route for the Production of Advanced Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editor

Dear Colleagues,

Electrodeposition can provide a simple, flexible, convenient, affordable, and not highly energy-demanding production route, moreover, the ability of process optimization via control of several electrolytic deposition parameters.

This Special Issue will provide readers with recent progress in the electrodeposition field for production of different materials, such as metal or alloy coatings, metal or alloy matrix composite coatings, and their nanocrystalline counterparts, several nanoparticles, metal oxide and semiconductive thin films, etc. Thus, the final product of electrodeposited materials can exhibit improved mechanical, physicochemical, semiconductive, electrocatalytic, photocatalytic, antimicrobial, magnetic, hydrophobic or hydrophilic properties.

Contributing papers are solicited in the following areas:

- Investigation of microstructural and morphological characteristics of electrodeposited materials;
- Correlation of investigated properties to microstructural and morphological characteristics of electrodeposited materials;
- Optimization of the electrodeposition process in relation to investigated properties of produced materials.

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Message from the Editor-in-Chief

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