Special Issue

Electrodeposition as a Convenient Route for the Production of Advanced Materials

Message from the Guest Editor

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.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/68943

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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