Special Issue

Advances in Coatings Prepared by Deposition: Microstructure, Properties and Applications

Message from the Guest Editors

Advancements in deposition techniques are pivotal for the development of coatings with enormous potential for technologically relevant applications. The ability to tune the properties of coatings by properly regulating their microstructure, morphology and composition, adopting an advanced fabrication route is a crucial factor to improve their performances for the targeted application.

This Special Issue aims to welcome original research papers and reviews focusing on advanced coatings realized through a wide variety of fabrication routes, including either physical (e.g., sputtering, ion implantation, pulsed layer deposition, etc.) or chemical (chemical vapour deposition, sol–gel, chemical bath deposition, hydrothermal, etc.) methods.

Potential topics include, but are not limited to:

The fabrication and characterization of nanostructured coatings;
The optimization of the deposition process in view of specific applications;
Electrocatalysts for applications towards oxygen and/or hydrogen evolution reactions;
Coatings for applications in sensors, microelectronics and solar cells.

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Deadline for manuscript submissions

closed (20 June 2023)

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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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