Special Issue

Metallic Coatings Synthesized by Magnetron Sputtering

Message from the Guest Editor

This Special Issue intends to gather original and innovative research related to the fabrication processes of metallic coatings, their characterization, and evaluation for use in applications. The main processes to be covered are the PVD methods, including, but not limited to, the following: evaporation, either by resistive heating or electron beam; sputtering, with all the variants, including magnetron, ion assistance, HiPIMS, etc.; arc vapor deposition; pulsed laser deposition; etc. The exploration of hybrid techniques that incorporate variants of physical deposition and/or other complementary techniques is encouraged. The main classes of applications that can be explored include the following:

- Conductive coatings for interconnections, circuit elements, sensors, etc.;
- Optical coatings that are used as reflectors, band pass filters, thermal control films, etc.;
- Optoelectronic components, such as reflective coatings, transparent conductors, electrodes, etc.;
- Metallic glasses;
- Protective and/or decorative coatings;
- Antibacterial and/or biocompatible coatings;
- Precision alloying with a metallic component.

Guest Editor

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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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