

Special Issue

Microstructures and Mechanical Properties of Metallic Thin Films and Coatings

Message from the Guest Editor

This Special Issue will focus on recent advances in the field of metallic coating materials and the relation between microstructural evolution and their mechanical properties. The Special Issue should be a platform for articles dealing with specific structure–property relationships of metallic coatings, their chemical compositions, and alloying concepts to enhance their thermomechanical properties; fracture resistance and related characterization techniques; mechanical properties such as residual stress, hardness, or indentation modulus in general; phase formation with respect to crystalline and amorphous structures; as well as high-resolution characterization (e.g., HR-TEM, ATP, or nanobeam experiments) techniques to gain insights on predominant phases. For this Special Issue, PVD-based deposition techniques are preferred though other techniques will be considered.

Guest Editor

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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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