Special Issue

Advances in Surface Engineering: Functional Films and Coatings

Message from the Guest Editors

This Special Issue aims to showcase recent advances in the design, synthesis, characterization, and application of functional films and coatings. We are particularly interested in studies that explore novel coating materials, innovative deposition techniques, performance optimization strategies, and multi-functional properties. Both experimental investigations and modeling approaches are welcome, as well as research bridging laboratory-scale developments with industrial applications. We welcome original research articles, reviews, and short communications covering, but not limited to, the following topics:

- Development of advanced functional coatings and films;
- Surface modification and treatment techniques;
- Physical vapor deposition (PVD), chemical vapor deposition (CVD), thermal spray, sol-gel, and electrochemical processes;
- Wear, corrosion, oxidation, and erosion resistance;
- Multifunctional coatings with optical, electrical, or thermal functionalities;
- Nanostructured, bioactive, and smart coatings;
- Coating adhesion, residual stress, and failure mechanisms;
- Modeling and simulation of coated surfaces.

Guest Editors

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Deadline for manuscript submissions

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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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