

Special Issue

Metallic Coatings: Deposition, Characterization and Applications

Message from the Guest Editor

It is my pleasure to introduce this new Special Issue of *Coatings*, "Metallic Coatings: Deposition, Characterization and Applications". Metallic coatings are used to modify surface properties and may be functional or decorative. Generally, they present properties such as high corrosion resistance and high durability (fatigue resistance, wear resistance) with sufficient reliability (fracture toughness). For this application, base materials may be metallic, non-metallic, polymer or paper. Metallic coatings can be deposited by:

- Electroplating/electrodeposition;
- Metallizing or flame spraying;
- Hot-dipping;
- Vapor deposition;
- Diffusion-coating or surface alloying;
- Cladding (plasma, laser, electron beam etc).

We look forward to receiving your contributions. This Special Issue will serve as a forum for papers in the following topics:

- Deposition methods;
- Characterization of structure (SEM, AFM, TEM, XRD, XPS) and properties (corrosion, fatigue resistance, wear resistance, fracture toughness) of coatings;
- Coatings for environmental, energy, and medical applications.

Guest Editor

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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