

Functional Coatings for Metallic and Ceramic Materials

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Message from the Guest Editors

Dear Colleagues,

Coatings are used today in many areas of human activity. Moreover, if traditionally it was believed that the main areas of their application are protected against corrosion and giving decorative properties to various materials, then recently, the functions of coatings have expanded significantly. Heat-resistant and wear-resistant coatings on metals and alloys based on iron, aluminum, and other metals are widely used in the industry. In addition to metallic materials, there is a wide range of ceramic and glassy materials.

In this Special Issue, it is planned to publish articles, including, but not limited to the following:

theoretical studies of the physicochemical features and the mechanism of formation of the structure and properties of the metal, ceramic, polymer, and other coatings

experimental studies of the processes of formation of functional coatings with different properties

study of the structure and properties of coatings

The improvement of existing, and the development of new effective methods of coating.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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