

Special Issue

Recent Advances in the Design, Processing, Characterization, and Application of High-Performance Ceramic Materials and Coatings

Message from the Guest Editors

We would like to invite you to submit your research work to our Special Issue. Due to the wide range of applications of ceramic materials and coatings, this Special Issue aims to present new materials with improved characteristics (i.e., physical, chemical, and/or biological). Surface modification using coating processes can enhance, adjust, and achieve desired characteristic and properties/functionalities of materials. Taking into account the multidisciplinary character of this Special Issue, we welcome submissions from disciplines such as material science and engineering, surface physics and chemistry, nanomaterials and nanotechnologies, analytical techniques used in materials characterization, thin films, coatings, and so on. The topics of interest include but are not limited to:

- New ceramic materials with improved properties applied in different fields as: construction, electronics, biomedical, industrial, etc.;
- New coatings: synthesis/obtaining process, characterization, applications;
- Surface modifications;
- Analytical techniques for structure characterization, elemental analysis, physico-chemical properties, impurities diffusion/contamination;
- Nanomaterials and nanostructures.

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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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