

## Special Issue

# Ceramic Materials and Coatings: Materials, Fabrication, and Applications

### Message from the Guest Editors

Ceramic coatings have the potential to considerably improve metal surface characteristics such as corrosion resistance, thermal barrier properties, wear resistance, self-cleaning, and biocompatibility. To develop new applications for ceramics, it is essential to examine the structure of ceramics and comprehend how it relates to the properties of ceramic coatings. Recent developments in the synthesis and characterization of ceramic materials as coatings and thin films will be addressed in this Special Issue. We invite you to collaborate with us in bringing readers up to date on the ceramic coating research by contributing to this Special Issue on "Ceramic Materials and Coatings: Materials, Fabrication, and Applications". The topics of interest include, but are not limited to, the following:

- The implementation of ceramic materials and coatings for wear, corrosion, high-temperature, optical, energy, antibacterial, and biomedical applications;
- The fabrication of ceramic coatings and thin films via PVD, CVD, thermal spray, and the sol-gel technique, as well as hybrid methods;
- The characterization of ceramic coatings and their applications.

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### Guest Editors

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### Deadline for manuscript submissions

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## Coatings

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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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### Editors-in-Chief

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