

Special Issue

Ceramic-Based Coatings for High-Performance Applications

Message from the Guest Editor

Ceramic-based coatings have shown extensive application value in multiple fields due to their unique physical and chemical properties, especially in key industries such as aerospace, automotive manufacturing, energy technology, and medical devices. The aim of this Special Issue is to analyse and publicise the progress and current state of knowledge in the field of ceramic-based coatings and related materials. The topics of interest for this Special Issue include, but are not restricted to, the following:

- Chemical, physical, and technological properties of ceramic-based coatings and related materials;
- Problems and methods of preparation, manufacturing, and application of ceramic-based coatings and related materials;
- Experimental and processing high-performance coatings with exposure to high temperatures, high stress, and other extreme environment applications;
- Theoretical and computational modelling of surfaces and interfaces;
- Recent developments in ceramic-based coatings and related materials;
- Physical and chemical vapour deposition techniques;
- Any other aspects of ceramic-based coatings and related materials.

Guest Editor

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Deadline for manuscript submissions

20 February 2027



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/225296

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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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