



New Advances in Ceramic Coatings and Its Applications

Guest Editor:

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Message from the Guest Editor

Ceramic coatings have been widely applied in a variety of fields, such as thermal insulation, anti-corrosion, anti-wear, self-lubrication, antimicrobial activity, electrochemical conversion, energy storage, etc. This Special Issue focuses on processing and microstructure design, mechanical and thermal properties, advanced testing and non-destructive evaluation, wear, erosion and corrosion behavior, and the functional properties and modeling of ceramic coatings. Contributed articles are expected to include the current study of and state-of-the-art industrial applications of ceramic coatings. In particular, the topics of interest include but are not limited to:

- Processing and microstructure design;
- Mechanical and thermal properties;
- Advanced testing;
- Non-destructive evaluation;
- Anti-wear;
- Corrosion resistance;
- Modeling





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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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