

Carbon and Carbon-Based Composite Thin Films/Coatings: Synthesis, Properties and Applications

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Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

This Special Issue is intended to collect current work on the development, characterization, and deformation mechanism of carbon-based coatings. We encourage you to send manuscripts containing scientific findings and significant contributions for the promotion of carbon-based coatings.

In particular, the topic of interest includes but is not limited to:

- Techniques to deposit carbon-based coatings;
- Characterization of carbon-based coatings;
- Optical, electrical, and mechanical properties of carbon-based coatings;
- Deformation mechanism of carbon-based coating under extreme conditions;
- Variation of optical, electrical, mechanical properties under different conditions;
- Determination of the carbon-based coating adhesion strength;
- Corrosion behavior of carbon-based coatings;
- Modeling and simulation of optical, electrical, mechanical behavior;
- Applications of carbon-based coatings.



mdpi.com/si/98496

Special Issue

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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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