



Plasma Technologies for Surface Engineering

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Coatings and interfaces developed through plasma technologies offer solutions for complex problems in a wide range of sectors from tissue engineering and regenerative medicine to aerospace, optoelectronics, and energy generation.

The goal of this Special Issue is to provide an overview of the current state of knowledge on the synthesis, characterization, and use of plasma-synthesized coatings in important technological applications. The topics of interest include but are not limited to:

- Plasma surface engineering technologies such as PVD, PECVD, ion beam deposition and plasma immersion implantation, plasma polymerization, and atmospheric pressure plasma processes;
- Plasma coating applications such as electrical, magnetic and optical coatings; protective and tribological coatings; biofunctional coatings; and coatings related to energy conversion;
- Characterization and simulation of plasma-synthesized film growth, structure, and properties.

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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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