



Application of Advanced Plasma Technology in Coatings, Films and Etching

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Message from the Guest Editor

Dear Colleagues,

Plasma techniques have revolutionized the fields of materials science, enabling coatings, films and etching in a wide range of areas in surface engineering. The advanced plasma techniques have greatly contributed to the field of nanofabrication by allowing the precise control of nano-scale materials.

This Special Issue will collect original research articles and review papers that include, but are not limited to, the following areas:

- Theoretical, modeling and experimental research, knowledge and new ideas in plasma source, pulsed plasma techniques and radiation sources;
- Atomic layer processing (ALD/ALE);
- Dry etching technologies with low-pressure and atmospheric plasmas;
- Plasma deposition of functional coatings and finishings;
- High-pressure and thermal plasma processing;
- Surface reaction and damage with plasma;
- Nanofabrication and nanodevices using plasma-based techniques;
- Plasma processing for biomaterial, medical, energy and sensor applications;
- Plasma processing for new material devices (MRAM, power devices, organics, etc.).





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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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