

Feature Paper Collection in Plasma Coatings, Surfaces & Interfaces

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Message from the Collection Editors

Dear Colleagues,

You are invited to submit your work to this Feature Paper Collection on Plasma, which focuses on low-temperature plasma theory and applications. Low-temperature plasmas are widely used for manufacturing semiconductor devices, tribological coatings, displays, solar panels, and many more technical products. On one hand, fully understanding plasma behavior requires the combined effort of simulation and diagnostics. Accurate simulation of plasmas, especially at low pressures (<100 mTorr), is computationally extensive due to the requirements to resolve the fastest temporal process and the finest spatial behavior of electrons. On the other hand, industry production has continuously driven the development of more efficient plasma sources and processes. Potential topics of the special issue include but are not limited to:

- Modeling and diagnostic methods of plasma discharges;
- Fundamental understanding of plasma behavior;
- Plasma-enhanced coatings and structures;
- Plasma-surface interactions;
- Novel plasma-based thin film deposition and material synthesis technology;
- Implementation of plasma processing for research and industrial applications.



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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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