

Feature Paper Collection in Plasma Coatings, Surfaces & Interfaces

Collection Editors:

Prof. Dr. Qi Hua Fan

College of Engineering, Michigan
State University, East Lansing, MI
48824, USA

Dr. Bocong Zheng

Fraunhofer Center for Coatings
and Diamond Technologies, East
Lansing, MI 48824, USA

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.



Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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