

## Special Issue

# Plasma Processing and Thin Films Formation Applications

### Message from the Guest Editor

Plasma, as a high energy environment and distinct state of matter where elementary atomic or molecular processes can be controlled or tuned, represents a top technological solution for many applications. In this sense, new experimental and theoretical observations on plasma processes, especially in pulsed plasmas, relevant for thin films formation are important. This Special Issue will serve as a forum for papers considering the following concepts:

- Plasma thin films physics and chemistry and transition towards industrial applications;
- Design and diagnosis of plasma sources for deposition and polymerization;
- Experimental studies on the polymerization and growth mechanisms in pulsed plasmas;
- Growth process modelling and plasma chemistry simulation;
- New insights on relationships between operational parameters, plasma parameters, and thin films properties;
- New observations on the use and performance of plasma thin films in life sciences, textile industry, extreme environments, energy production, quantum technologies, micro and nanoelectronics, and corrosion and wear protection.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 December 2021)



## Coatings

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## About the Journal

### 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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### Editors-in-Chief

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