

Special Issue

Surface Functionalization and Treatment of Materials by Plasma Technology

Message from the Guest Editors

Surface engineering plays an important role in all kinds of applications in modern science and engineering. Plasma treatment has been routinely used for surface functionalization as an inexpensive and rapid method in various fields. We would like to invite you to submit your recent work to this Special Issue on “Surface Functionalization and Treatment of Materials by Plasma Technology”. This Special Issue aims to demonstrate the current state of plasma treatment methods, surface functionalization and characterization of materials, and the applications of plasma-assisted coatings in important technological applications. The topics will focus on but are not limited to:

- Methods of in situ process diagnostics of plasma treated surface;
- Atmospheric-pressure plasma and its application in biomedicine and biology;
- Plasma-enhanced deposition and applications;
- Plasma etching, pattern transfer, and related effects and related applications;
- Plasma cleaning and functionalization;
- Plasma surface treatment effects on adhesion and bonding;
- Protective coatings using plasma technologies;
- Optical coatings using plasma;
- Plasma-assisted nanomaterials synthesis.

Guest Editors

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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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