

Special Issue

Emerging Trends in the Future of Plasma Science and Technology

Message from the Guest Editors

As we all learned from our physics lessons, plasma, as a generic term, is the fourth state of matter, consisting of ions, electrons, and neutral particles (atoms or molecules), which is present as totally or partially ionized gas and is electrically neutral. As we all know, a large part of the products and services depend on plasma science and processes, including the integrated circuit industry for cell phones and computers, the treatment/coating of different surfaces to improve their properties (wear-resistant, self-cleaning, self-repairing, anti-microbial, bi-compatibility, a.s.o.), energy generation and storage and the processing of metallic materials for power distribution systems, cars, and aircraft engines. In this Special Issue, we invite you to contribute to the development of innovation in the field of surface modification by plasma technology by submitting a manuscript, whether it is about coatings on different types of substrates (i.e., metallic, polymeric, or textile), the transformation of surface functionality by various technologies or about the in-depth analysis of the physical-chemical phenomena that occur during these processes.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2025)



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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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