

Special Issue

Advances in Fundamental and Applied Fusion Research Domain

Message from the Guest Editors

The goal of our Issue is to highlight the latest results in the fusion research domain. The topics cover a wide range of scientific interests: from lab-scale plasma experimental systems, plasma diagnostics, material investigations, and simulations, up to robotics and cyber-applications. The topics of our Special Issue are presented in the following (not an exhaustive list):

- Lab-scale plasma experimental systems comparable to fusion phenomena (filamentary discharges, jets, glow discharges, etc.);
- Plasma-material interaction: studies on erosion, cracks, dusts, fuzz, and the formation of exotic structures;
- Tritium trapping in dust produced during plasma operation (W);
- LOVA and LOCA issues and waste management;
- Elastic recoil detection analysis for hydrogen, deuterium, and light elements profiling investigations.
- In situ coating repair;
- Modelling of interfaces in PFC;
- Computation, robotics, and cyber-applications for fusion research sector development.

Guest Editors

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Deadline for manuscript submissions

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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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