

Special Issue

Electron-Ion-Plasma Equipment and Processes for Formation of Functional Layers and Coatings

Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue on “[Electron-Ion-Plasma Equipment and Processes for Formation of Functional Layers and Coatings](#)”. One characteristic of electron-beam deposition is the high purity and reproducibility of the process due to the use of high vacuum. The trend of modern technologies is to use a hybrid method combining—for example—coating deposition and electron-beam treatment to improve their properties in a single vacuum cycle. It is possible to achieve results that are not realized using spatially separated processes (deposition and electron-beam treatment). These processes and the results of their use are intended to be covered in this Special Issue. In particular, the topics of interest include but are not limited to:

- Equipment for an electron-beam deposition and modification of material surface;
- Processes of electron-beam deposition;
- Electron-beam modification of material surface;
- Properties of electron-beam coatings;
- Complex electron-beam and ion-plasma engineering of material surface.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2023)



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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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