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# Advanced Coatings for Energy Harvesting, Conversion and Storage

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Deadline for manuscript submissions:
**31 May 2025**

## Message from the Guest Editors

We are pleased to invite you to submit your work to this Special Issue of Coatings on "Advanced Coatings for Energy Harvesting, Conversion and Storage". These types of coatings enhance the efficiency and durability of energy systems, improve solar cell performance, protect battery components, and optimize thermal management. Additionally, utilizing nanomaterials and thin-film technologies, they enable effective energy capture and storage, supporting sustainable energy solutions and advancing renewable technologies.

The research areas:

- Innovative coating materials;
- Energy conversion and storage technologies;
- Nanotechnology and surface engineering investigations into the use of nanostructured coatings and surface modifications increasing energy devices' effectiveness;
- Environmental impact and sustainability discussions on how advanced coatings contribute to sustainable energy practices by reducing the environmental footprint and improving the recyclability of energy devices.

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## 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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