

Special Issue

Advances in Laser Surface Treatment Technologies

Message from the Guest Editors

Laser surface treatment technologies offer precise, controllable, and environmentally friendly methods for modifying surfaces without altering bulk properties. They enable enhanced wear resistance, corrosion protection, adhesion, and optical characteristics, making them critical for aerospace, biomedical, automotive, and energy applications. This special issue aligns with *Coatings* journal's scope, covering "Processes for coating deposition and modification" and "Applied surface science." It focuses on laser-based surface treatment technologies while encompassing diverse materials and applications. The scope includes, but is not limited to:

- Laser surface modification techniques for adhesion
- Laser cladding and remelting for protective coatings
- Ultrafast laser processing for functional surfaces
- Laser-induced texturing for tribological applications
- In-situ monitoring of processes
- Computational modeling of laser-material interactions
- Hybrid laser processes with other treatments
- Laser treatment for biomedical coatings
- Environmental and economic aspects

We look forward to your contributions.

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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