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Laser-Assisted Coating Techniques and Surface Modifications

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Deadline for manuscript submissions:
closed (20 February 2025)

Message from the Guest Editors

Dear Colleagues,

Laser assisted surface technology (LAST, including coatings and modification) plays an important role in the surface engineering fields. Many studies have been carried out to develop advanced technologies and new functional materials. This Special Issue will focus on the cross combination of multi-technology, multi-mechanism, and multi-methods of LAST to improve the surface properties, including the principal scheme and technology, which cannot be solved by the single technology in the laser material processing field and other surface engineering fields, the design and optimization of the process system, as well as the physical process and interfacial microstructure transition mechanism of different laser-assisted surface technologies in improving surface properties. Additive manufacturing (AM), laser surface cladding (LSC), laser chemical vapor deposition (LCVD), laser surface alloying (LSA), laser-assisted plasma spraying (LPS), pulsed laser deposition (PLD), laser surface micro/nano structure preparation and other laser-assisted surface technologies are all of interest.

We look forward to receiving your contributions.

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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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Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

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