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Laser Surface Engineering: Technologies and Applications

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

We invite you to submit your technological contributions and manuscripts to this Special Issue, “Laser Surface Engineering: Technologies and Applications”.

Laser surface treatment can modify the surface composition and properties of materials in a highly controllable and flexible way, and their applications have begun to transition from the laboratory to the engineering. The unique feature of this technology is the ability to add extensive surface functionality by texturing, structuring, micro/nano machining, cleaning, polishing or the shock peening of diverse materials, accompanied by protective coatings. Accordingly, improving surface tribological, joining/adhesion properties and the creation of superhydrophobic, superhydrophilic, iceophobic, oleophobic, and colorful surfaces promote their applications for one-of-a-kind products.

This Special Issue will attract state-of-the-art contributions related to novel laser surface treatment technologies and coating techniques with characterization relevant to surface modification along with unique fabrication methodologies for evolving manufacturing fields.

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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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