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The Applications of Laser Processing and Additive Manufacturing

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Message from the Guest Editors

In recent decades, laser-based materials processing has received extensive interest in manufacturing industries due to its high efficiency, great flexibility and high productivity, with applications such as laser welding, cutting, drilling, forming, cladding, ablation, texturing and polishing for a wide range of materials (including metals, ceramics, polymers and natural materials). A large number of applications in laser processing are related to surface engineering which aims to achieve superior properties by either adding a thin coating of other materials, or partially removing or modifying the characteristics of the material surface.

Potential topics for this Special Issue will include, but are not limited to, the following:

- Laser processing related to surface engineering, such as cladding, ablation, texturing, polishing etc.
- Novel laser processing technologies to improve the properties of the material surface.
- Fundamental studies of laser–materials interaction.
- Laser additive manufacturing of novel materials or functionally graded materials.

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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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