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Surface Modification for Additive Manufacturing: Materials, Processing, Applications and Future Challenges

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

The discipline of 3D printing is continuing its fast growth, and the development of advanced additive manufacturing technologies and adaptation of modern materials offer production benefits, such as the opportunity to produce customized parts and accessories, with unique geometries and properties, and with less scrap formation. The goal of this Special Issue of Coatings is to offer a variety of innovative research studies in the field of surface modification of different materials produced by additive manufacturing technologies in order to gain new knoledge, ideas, and recent developments on this topic.

This scope and topics of interest of this Special Issue include:

Experimental research, applications, and future challenges on various topics concerning surface modification of additive manufactured parts, produced by different additive manufacturing technologies;

Recent progresses in post-printing surface treatments of 3D-printed parts, such as coatings, to reduce surface roughness and to improve surface performance;

Improvement of surface quality of 3D-printed parts made of different 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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