Special Issue

Recent Development in Post-processing for Additive Manufacturing

Message from the Guest Editors

The unique manufacturing method of layer-by-layer manufacturing enables additive manufacturing (AM) technology to outperform traditional subtractive manufacturing process for customized products, geometrically complex parts, and near-net-shape rapid manufacturing. Therefore, this technology has been attracting great attention. To date, AM technology has been extended to automotive, aerospace, moulding, medical, and biomedical industries, among others. The surface and subsurface of the additively manufactured parts exhibit unique performance characteristics, which requires new surface treatment processes to achieve support structure removal, surface performance improvement, tissue performance regulation, dimensional accuracy improvement and surface finish improvement. Developing new post-processing methods and protocols for AM technology is also a crucial link for bridging the upstream and downstream chains of the entire AM industry. This Special Issue aims to publish the experimental and theoretical results on post-processing for additive manufacturing and to contribute to quality improvement and rapid application of additively manufactured parts.

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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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