Special Issue

Surface Treatment and Coating of Additively Manufactured Components

Message from the Guest Editors

Additive manufacturing enables the production of three-dimensional objects through a layered approach, thereby removing the necessity for molds and providing greater design flexibility in comparison to conventional manufacturing techniques. This group of manufacturing technologies, which has developed considerably since the onset of the millennium, is now capable of processing various metal alloys such as aluminium, copper, cobalt, nickel, steel, and titanium. While providing design flexibility and working with a variety of materials, as well as being utilized by multiple industries like the aerospace and biomedical industries, additive manufacturing techniques continue to pose challenges, including creating surfaces that fail to meet quality standards due to their layered nature. Researchers and engineers attempting to overcome these challenges frequently aim to modify the manufacturing setup, enhance process parameters to reduce roughness, or investigate post-processing techniques, thus leading to invention or the adoption different techniques.

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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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