Special Issue

Additive Manufacturing of Metallic Components for Hard Coatings

Message from the Guest Editor

Additive manufacturing is a method for the fabrication of 3D components, which are built layer by layer (i.e., 3D printing), and is expected to represent a revolution in the components fabrication sector. The technology provides the possibility of fabricating customized parts and the capability of producing complex geometries which are impossible to manufacture with other methods, and makes it possible to optimize the topology in order to obtain lightweight designs. Furthermore, the low material waste produced during additive manufacturing is a highlight from the point of view of circular economy. For these reasons, the additive manufacturing of metals and metal matrix components could be a possible solution to obtain components for hard coating applications. Contributions should focus on the fundamentals and application of the additive manufacturing of Metallic Components for Hard Coatings, and we are particularly interested in those which emphasize the capability of the different additive manufacturing methods.

Guest Editor

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Deadline for manuscript submissions

closed (25 December 2024)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/107264

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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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