Special Issue

Novel Additive Manufacturing of Alloys and Metallic Composites

Message from the Guest Editors

Additive manufacturing (AM) has been growing rapidly in recent years to overcome the difficulties related to traditional manufacturing processes via allowing the tool-free near-net shape production of parts directly from three-dimensional (3D) model data. The main objective of this Special Issue is to address recent advances in enhancing the knowledge of novel AM techniques for the fabrication of metallic alloys and composites. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Novel AM techniques for metallic alloys and composites;
- Joining and welding of metallic alloys and composites fabricated by AM;
- Microstructural evolution during the AM of metallic alloys and composites;
- Mechanical properties of additively manufactured components under monotonic and cyclic loading;
- Modeling of AM for metallic alloys and composites;
- Modeling of microstructural evolution during AM.

We look forward to receiving your contributions.

Guest Editors

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closed (20 April 2023)

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About the Journal

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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