Special Issue

Laser Additive Manufacturing: Materials, Technologies, and Applications

Message from the Guest Editor

In recent years, rapid developments in laser additive manufacturing have been applied for the direct fabrications of metallic and non-metallic products with high flexibility and productivity in different fields. This Special Issue is devoted to publishing original research and review articles which focus on all aspects of laser additive manufacturing. The topics of interest include, but are not limited to, the following:

- Solidification on solid–liquid interfaces in laser additive manufacturing;
- Processes for laser deposition repairing and modification;
- Processes for laser-arc hybrid additive manufacturing;
- Wear, corrosion, and erosion in laser additive manufacturing;
- Characterization techniques for the improvement of laser additive manufacturing;
- Crack and fatigue properties in laser additive manufacturing;
- Process controls for laser additive manufacturing;
- Fundamental and functional properties of surfaces and interfaces in laser deposition repair and modification;
- Surface formation in laser additive manufacturing.

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2025)

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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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