



Microstructural Control and Performance Improvement in Additive Manufacturing

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Message from the Guest Editors

Dear Colleagues,

This Special Issue will mainly focus on the field of metal and ceramic additive manufacturing, including microstructure evaluation, performance adjustment, surface strengthening, coating corrosion and protection based on additive manufacturing, and the application of additive manufacturing in the industrial field.

In particular, the topics of interest include but are not limited to:

- The microstructure and mechanical properties of additive manufacturing.
- Modeling and simulation for additive manufacturing.
- Post-treatments and coatings for additive-manufactured parts.
- The microstructural control of additive manufacturing and performance improvement.
- Laser technology applications such as laser cladding, laser melting, etc.
- Industrial applications for additive manufacturing.





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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.

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