

Special Issue

Powder Bed and Emerging Metal Additive Manufacturing Technologies

Message from the Guest Editors

Additive manufacturing (AM) technologies are vital for the fabrication of complex-shaped metallic components. In recent years, metal additive manufacturing technologies, especially powder bed-based and emerging metal additive manufacturing technologies, including laser powder bed fusion and binder jetting additive manufacturing (BJAM), have advanced significantly. This Special Issue is devoted to publishing original research and high-quality review articles relevant to recent advances in powder bed and emerging metal additive manufacturing technologies. Potential topics for this Special Issue will include, but are not limited to, the following:

- Laser powder bed fusion/electron beam powder bed fusion;
- Sinter-based/binder jetting additive manufacturing technologies;
- Laser-based additive manufacturing technologies;
- Additive manufacturing of titanium, copper, magnesium and their alloys;
- Wire arc additive manufacturing;
- Multi-material additive manufacturing technologies;
- Solid-state additive manufacturing.

Guest Editors

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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