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Recent Advances in Additive Manufacturing of Metallic Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Materials* focuses mainly on the additive manufacturing (AM) of metallic materials. The AM process has strong advantages, such as “high freedom of design”, “complexity for free by topological optimization” and “potential elimination of tooling”, over classical manufacturing processes. However, AM is still facing hurdles to overcome in relation to widespread utilization, especially metallurgical conditions for tailoring AM components. Therefore, this Special Issue is a good opportunity for researchers around the world to disseminate different aspects of their work related to the additive manufacturing of metallic materials.

Potential topics include, but are not limited to:

- Alloy design for additive manufacturing;
- Process design for additive manufacturing;
- Post-process design, such as heat treatment and machining, for additive manufacturing;
- Process–microstructure–properties relationship;
- Modeling and simulation of additive manufacturing processes;
- Materials characterization in AM components;
- Component manufacturing: pre- and post-processing strategies.



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Special Issue



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Message from the Editor-in-Chief

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