Special Issue

Recent Advances in Additive Manufacturing of Metallic Materials

Message from the Guest Editor

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.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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