Special Issue

Materials Development by Additive Manufacturing Techniques

Message from the Guest Editors

Nowadays, metal additive manufacturing (AM) processes have a great impact on several industrial production processes. These technologies bring many advantages from a material perspective. The high cooling rate causes the solidification of peculiar microstructures and interesting mechanical properties. Nonetheless, some high-strength alloys are not processable by AM. It is therefore fundamental to develop high-strength alloys that can be processed by AM and can take advantage of the unique solidification conditions that arise during the building process. This Special Issue will address the advancements in AM alloys' design and characterization. Potential topics may include:

- New methodology for materials additive manufacturing development;
- New materials for additive manufacturing;
- Advanced characterizations of AM materials;
- Microstructural features of AM materials;
- Properties of AM materials;
- Materials modeling for AM development

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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