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Metal Powder for Additive Manufacturing: Manufacturing, Properties and Degradation

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Message from the Guest Editors

Metal additive manufacturing is a relatively new technology. However, significant technological development during the last two decades has allowed us to achieve significant progress when it comes to AM hardware development, allowing to manufacture metal AM components with properties compared to or even exceeding those of materials produced via conventional manufacturing processes for established materials. Further development and wider implementation of metal AM requires significant expansion of the material portfolio offered by the technology, decreasing the cost of the feedstock material as well as improving powder reuse during AM processing, requiring deeper understanding of powder degradation during powder handling and AM processing. This Special Issue of Metals welcomes review and original research articles covering manufacturing, characterization, and degradation of metal powder feedstock.

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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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