Special Issue

Additive Manufacturing of Advanced Materials: Fabrication, Characterization, and Properties

Message from the Guest Editors

Additive manufacturing (AM) has evolved from a rapid prototyping technology to a fabrication route that can produce complex end-use parts for critical applications. The design freedom that AM technology offers can open doors for the fabrication of components that do not exist to date and allow design optimization that cannot be fabricated even with expensive machining processes. There is a constant need for the development of advanced materials with mechanical properties superior to the existing ones for several challenging applications. This research topic aims to explore unique strategies in the development of advanced materials via an additive manufacturing route.

Guest Editors

Dr. Praveen Sathiyamoorthi
Indian Institute of Technology (BHU), Varanasi, India

Dr. Gangaraju Manogna Karthik
Department of Mechanical Engineering IIT, Indian Institute of Technology (BHU), Varanasi, India

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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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Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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