

Special Issue

Advances in 3D Printing Technologies of Metals

Message from the Guest Editors

For this Special Issue, we welcome the submission of articles that focus on the characterization of metallic parts obtained with different additive manufacturing processes, regarding their metallurgy, surface finish, porosity, mechanical properties, geometry features, etc. Topics of interest for the SI include (but are not limited to) the following different AM processes:

- VAT polymerization techniques such as stereolithography (SL) with metallic-filled resin.
- Metal binder jetting techniques.
- Material extrusion techniques such as fused deposition modeling (FDM), also known as fused filament fabrication (FFF) with metal-filled filament, direct ink writing (DIW) with metal-filled inks, solid-state friction welding and Joule printing.
- Metallic material jetting techniques as nano particle jetting (NPJ), liquid metal 3Dprinting, and supersonic 3D deposition
- Powder bed fusion techniques such as selective laser melting (SLM), or electron beam melting (EBM).
- Directed energy deposition processes such as powder DED and wire DED based on different energy sources: wire arc additive manufacturing (WAAM).
- Other (ultrasonic consolidation, ...)

Guest Editors

Dr. Irene Buj Corral

Department of Mechanical Engineering, School of Engineering of Barcelona (ETSEIB), Universitat Politècnica de Catalunya, 08028 Barcelona, Spain

Dr. Felip Fenollosa-Artés

1.Department of Mechanical Engineering, School of Engineering of Barcelona (ETSEIB), Universitat Politècnica de Catalunya, 08028 Barcelona, Spain

2.CIM UPC Technological Center, 08028 Barcelona, Spain

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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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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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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