

Special Issue

Characterization and Structure of Metallic Foams

Message from the Guest Editors

The scope of this Special Issue on “Characterization and Structure of Metallic Foams” is research on the latest developments in areas of porous materials, mechanical properties, characterization, synthesis, modeling, and advance understanding of metallic foams and/or porous metals in any composition. The papers are welcome to provide:

- advanced understanding of the micro- and macrostructure in correlation with mechanical properties of metallic foams as well as discovery or development and characterization of the structure of improved porous metals with novel functional or mechanical properties of potential engineering interests;
- latest developments in areas of syntheses, built-up mechanisms of closed or open porosity;
- improvements of mechanical properties in understanding of production of metal foam by changing the chemical composition of alloy and foaming agent.
- explain mechanisms of pore cell stability
- modeling of metal foams
- review overlook of latest studies

In this Special Issue, we will aim to publish papers with a focus on manufacturing, characterization, and modeling of metallic foams.

Guest Editors

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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

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