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Advances and Applications in Cellular Metals

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editors

It is our pleasure to invite you to submit a manuscript to the forthcoming Special Issue, “Advances and Applications in Cellular Metals”, in Metals (open-access journal, Impact Factor 2.117, https://www.mdpi.com/journal/metals).

This Special Issue aims to highlight the most recent novelties and developments in the field of cellular metals modelling, synthesis, characterization, and applications. Cellular metals are considered as one of the most versatile lightweight multifunctional materials for engineering applications, and to be perfectly aligned with contemporary society’s growing ecological awareness. Furthermore, they withstand high temperatures. Therefore, they are widely used as crash/impact energy absorbers for vehicles (closed-cells) and heat-exchangers (open-cells). Over the last several decades, several cellular metals have been emerging (e.g. composite and nanocomposite foams, 3D printing cellular structures, hollow sphere structures, auxetic foams, hybrid structures).

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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.

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