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Advanced Metallic Composites and Their Properties

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Deadline for manuscript submissions:
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Message from the Guest Editor

The current trend in the automobile and aerospace industries is to increase the use of lightweight materials and integrate them into products design in order to improve the fuel economy efficiency and reduce the weight. During the last two decades, the fully dense solid materials have lost slowly their applicability, while the use of metallic foams has experienced a rapid growth mainly due to their applications as core material in composite structures. Currently there is much interest in *Metallic Foam Sandwiches* and *Metallic Foam-Filled Sections* composites, mainly because such materials have been integrated into just about every field of today's engineering world. Their crashworthiness behavior has a fundamental importance in the safety design of vehicles because their plastic collapse is the mechanism used to dissipate the kinetic energy of the vehicle in a controllable manner.

This Special Issue represents a good opportunity for researchers to disseminate different aspects of their work related to recent developments in advanced composite metal foams and their properties. Research articles, communications and review articles are invited for this Special Issue.

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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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