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Advances in Characterization of Heterogeneous Metals/Alloys

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Message from the Guest Editor

This Special Issue aims to provide a good forum for scientists and engineers to share and discuss their pioneering original findings or insightful reviews on the characterization of heterogeneous metals/alloys. Reports on the development of a new characterization method and/or the application of multiple and complementary characterization methods towards the enhancement of process and application of metals and/or alloys are particularly welcome.

Proper characterization of heterogeneous materials is a challenging task, since the majority of characterization methods analyze either the average characteristics of the whole material or a narrow area of specific interest. Such correlations were found to be useful in many different aspects, while research gaps have been identified in terms of the advancement of characterization methods. On the other hand, gaining a better understanding of heterogeneous metals/alloys is of great importance from scientific and engineering points of view, since processing, and producing and applying, these materials, including advanced technologies, is vital to our modern society.

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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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