Special Issue

Thermophysical Properties of Liquid Metals

Message from the Guest Editor

The thermophysical properties of liquid metals have become the object of intensive study in recent years. This is due to their wider application in a number of branches of national economy. Of particular interest is the problem of the relationship between the thermophysical properties of substances in the solid and liquid states, since the technology of obtaining products from metals and their alloys passes through the liquid phase. The solution of this problem could lead to the production of materials with predetermined properties. Particular attention will be paid to the following two aspects (will not be limited to the material presented): (1) new experimental data on such thermophysical properties of metals in the liquid state; (2) the relationship of the thermophysical properties of elements in the solid and liquid states. The aim of this Special issue is to collect the latest scientific advances in the thermophysical properties of liquid metals. All approaches will be considered, including theoretical, numerical, and experimental contributions. Reviews, regular articles, and technical notes are welcome.

Guest Editor

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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

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