



Molten Salts and Molten Metals

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Message from the Guest Editor

Dear Colleagues,

The liquid state of materials comprises, not only everyday substances, such as water, oil, gasoline, and acetone, but also materials that are solid at ambient conditions but melt at elevated temperatures, such as salts and metals. Such materials are important in several technical areas, including metallurgy, nuclear energy, and chemical technology. They are also of scientific interest, with regard to the interactions between their particles that govern the conditions under which they are solid or liquid. The thermophysical, transport, and chemical properties of molten salts and molten metals need, therefore, to be known and correlations among them and relationships of them to the inter-particle forces are of interest. Computer simulations supplement experimental determination of these properties and are increasingly being applied. Papers dealing with the properties, both experimentally determined and computed, and with uses of molten salts and molten metals are invited for this Special Issue of *Metals*.





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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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