

Special Issue

Advances in Slag Metallurgy

Message from the Guest Editor

Pyrometallurgical processes usually involve complex physical and chemical reactions between slag and molten metal. In the above process, both the properties of slag itself and the interfacial properties between slag and other phases are significant not only for the optimization of smelting process, but also for the improvement of metal product quality. In order to better realize a more efficient slag metallurgy, we invite you to submit your paper to this Special Issue. Research may address but is not limited to the areas below:

- Thermodynamic properties and phenomena of slag (such as phase equilibrium, thermodynamic database, etc.);
- Microstructure and macro properties of slag (such as melt structure, viscosity, conductivity, etc.);
- Interface phenomena and reaction behavior between slag and inclusions (such as inclusion modification, inclusion dissolution and absorption, etc.);
- Interface phenomena and reaction behavior between slag and liquid metal (such as interfacial tension, slag-metal reaction, etc.);
- Design of metallurgical slag systems (refining slag, tundish slag, etc.);
- Recycling of metallurgical waste slag (BF slag, copper slag, etc.).

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2022)



Metals

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Impact Factor 2.5
CiteScore 5.3



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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

Prof. Dr. Yong Zhang

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