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Process Modeling in Pyrometallurgical Engineering

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Deadline for manuscript submissions:
closed (30 September 2020)

Message from the Guest Editors

The goal of this Special Issue is to highlight the recent advances in the development and application of process modeling in metallurgical engineering, and how modeling and simulation can be applied to improve and intensify the processes in the metallurgical industry. The ultimate goal of the Issue is to receive contributions on the modeling and simulation of the pyrometallurgical processes in order to show the advancements in the field and the tools that may be used to understand, control, and optimize current processes, and to design new ones.

- Transport phenomena and modeling unit processes in pyrometallurgy
- Modeling of slag–metal interaction and related phenomena
- Multiphase flows in metallurgical processes (e.g., in blast furnace, direct reduction, BOF, EAF, LMF, RH, continuous casting, etc.): experimental and modeling approaches
- Modelling techniques for studying metallurgical phenomena at elevated temperatures
- Process modeling, supervision, and control in pyrometallurgy
- Innovative process developments in the metallurgical industry
- Development of sustainable pyrometallurgical processes

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Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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