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Iron Ore Agglomeration

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editor

Due to the countercurrent principle based on which the blast furnace and shaft furnace DR processes are operated, iron ore sinter fines and concentrates cannot be directly used. Depending on the characteristics of raw materials available, iron ore agglomerates can be produced by sintering, pelletization, and briquetting.

In this Special Issue, we welcome the reviews and research articles in, but not limited to, the following areas

- Iron ore characteristics and their impacts on the final agglomerates' quality and process performance;
- Evaluation technologies of iron ore for different agglomeration processes;
- Evaluation of agglomerates for blast furnace and alternative ironmaking processes;
- Fundamental aspects of agglomeration processes, in particular, bonding mechanisms of green and fired agglomerates during various stages of agglomeration;
- Low emission technologies;
- Alternative agglomeration processes and agglomerates including cold bonded agglomerates and iron ore-carbon composite agglomerates;
- Agglomeration and recycling of iron bearing wastes and tailings.

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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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