

# Special Issue

## Iron Ore Agglomeration

### 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.

---

### Guest Editor

Prof. Dr. Liming Lu  
CSIRO Mineral Resources, Pullenvale, QLD 4069, Australia

---

### Deadline for manuscript submissions

closed (28 February 2023)



## Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/99523](https://mdpi.com/si/99523)

*Metals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
metals@mdpi.com

[mdpi.com/journal/  
metals](https://mdpi.com/journal/metals)





# Metals

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/journal/  
metals](https://mdpi.com/journal/metals)



## 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

Beijing Advanced Innovation Center of Materials Genome Engineering,  
State Key Laboratory for Advanced Metals and Materials, University of  
Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083,  
China

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei  
Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Metals and Alloys)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 18.7 days after  
submission; acceptance to publication is undertaken in 2.7  
days (median values for papers published in this journal in  
the second half of 2025).