

## Special Issue

# Thermo-Physical Properties of Metals and Oxides

### Message from the Guest Editor

Thanks to the progress in industrial digital transformation, manufacturing technologies have shown great improvements in recent years. Surely, digital twin based on computer simulations would accelerate the improvements, especially in metallurgy and its applications. For fascinating process simulations, accurate and reliable data on thermo-physical properties of metals and oxides are essential. This Special Issue on “Thermophysical Properties of Metals and Oxides” aims to collect excellent research and review papers on the recent progress of science and technologies in the study of thermophysical properties of metals and oxides. Topics addressed in this Special Issue may include but are not limited to:

- Measurements of thermophysical properties of metals and oxides (solid and liquid);
- Structure analysis and relationship with thermophysical properties;
- Improvements of the measuring technique;
- Computational modeling of thermophysical properties;
- Application of thermophysical properties in metallurgical processes;
- Digital transformation based on the thermophysical property database.

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### Guest Editor

Prof. Dr. Joonho Lee

Department of Materials Science and Engineering, Korea University,  
145 Anam-ro, Seongbuk-gu, Seoul 02841, Republic of Korea

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### Deadline for manuscript submissions

closed (31 May 2022)



## Metals

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

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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.

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### 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

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#### 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).