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# **Electric Arc Furnace and Converter Steelmaking**

Guest Editors:

### **Dr. Thomas Echterhof**

Department for Industrial Furnaces and Heat Engineering, RWTH Aachen University, Kopernikustr. 10, 52074 Aachen, Germany

#### Dr. Ville-Valtteri Visuri

Process Metallurgy Research Unit, University of Oulu, P.O. Box 4300, 90014 Oulu, Finland

Deadline for manuscript submissions:

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# **Message from the Guest Editors**

Dear Colleagues,

Electric arc furnace steelmaking is one of the most important steelmaking routes and currently accounts for almost 30% of worldwide crude steel production. The EAF serves as the basis for plans to melt DRI produced using hydrogen reduction to produce carbon-free steel. Traditional converter steelmaking is affected drastically by the challenge to reduce the CO2 emissions of the steel industry. To confront this challenge, steelmakers are looking for ways to improve the material and energy efficiency of the converter processes further.

In this Special Issue of *Metals*, we welcome contributions on recent advances in all aspects of electric arc furnace and converter steelmaking, including, but not limited to, process optimization and efficiency, the application of new sensors and equipment, reduction in CO2 emissions and environmental impact, process modelling and simulation, scrap handling and alternative/new charge materials, as well as slag properties and valorisation. We also encourage the submission of reviews on EAF steelmaking technologies.











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## **Editors-in-Chief**

#### Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

### 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

# **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 metallurgical field the ranging from processing. and mechanical behavior. phase transitions microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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