Special Issue

Clean Metallurgy of Non-ferrous Metals

Message from the Guest Editor

The development of clean metallurgy featuring the efficient recycling of resources, low-carbon and energy-saving processes, pollution reduction at source and pipe-end treatment is an effective way to solve the dilemma faced by traditional metallurgy, and practicing the clean metallurgy of non-ferrous metals is of great significance to promote the sustainable development of the world's non-ferrous metallurgical industry. This Special Issue intends to outline the primary development trends and the latest progress in clean metallurgy and provide solutions for the clean disposal of metallurgical processes. This Special Issue focuses on the theory, methods, and processes of clean metallurgy, such as the clean treatment of metallurgical process, source reduction and green processes of metallurgical/chemical solid waste, safe disposal and resource utilization of metal solid/hazardous waste, large-scale consumption and coordinated utilization of bulk smelting slag, energy conservation and emission reduction, cleaner production, wastewater treatment, and contaminated site remediation.

Guest Editor

Prof. Dr. Yongming Chen

School of Metallurgy and Environment, Central South University, Changsha 410083, China

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

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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.

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

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