

Special Issue

Electrorefining in Sustainable Metals Production

Message from the Guest Editor

World faces growing demand of raw materials and non-ferrous as well as specialty metals. To make metals production more sustainable, it is necessary to use resources efficiently and at the same time develop processes that can treat both complex, low-grade primary materials as well as secondary materials. Hydrometallurgy is often used for the production of non-ferrous, noble, and specialty metals, and in hydrometallurgical processes electrorefining is often the final step in the production. Electrorefining is efficient in the production of pure metals because only very small amounts of metallic impurities end up in the cathodes. The general focus of this Special Issue of *Metals* is on papers related to the improvement of production rate, improvement of energy usage, and methods to ascertain product quality. Papers that address the challenges caused by the increasing use of secondary raw materials are encouraged. In this Special Issue, the concept of electrorefining is not limited to traditional aqueous systems, and papers on non-aqueous systems such as ionic liquids and molten salt electrolysis are very welcome.

Guest Editor

Dr. Jari Aromaa

Aalto University, School of Chemical Engineering, Department of Chemical and Metallurgical Engineering, PO Box 16100, FI-00076 Aalto, Finland

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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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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

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