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How to Recover Efficiently Critical Metals from Their Secondary Resources

Guest Editors:

Dr. Lenka Švecová

Dr. Helena Passos

Dr. Nicolas Schaeffer

Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

Metals are primary yet finite commodities, necessary for the continued growth of modern society, and are at the forefront of the green economy transition. However, the mining rates of most metals are at a historical maximum, while their recovery from waste, where these metals are newly concentrated and can therefore be considered as urban ores, remains low. The imbalance between supply and demand, compounded by the unequal geographical concentration of exploitable deposits, results in an unsustainable situation.

For this Special Issue in *Metals*, we welcome innovative contributions in the area of metal recycling and recovery using any metallurgical processing route. Articles addressing either the theoretical or practical understanding of metal processing are encouraged, as well as a critical comparison of process options and literature reviews. We would also appreciate receiving articles dealing with the wider context of metal recovery and criticality, such as global flows of critical metals or the environmental impacts of recycling using life cycle assessment methodology.

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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 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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Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/metals
metals@mdpi.com
𝕏@Metals_MDPI