Topical Collection

Sustainable Metal Recovery from E-Waste: Advanced Technologies, Resource Efficiency, and Circular Perspectives

Message from the Collection Editors

With the global demand for metals steadily increasing and primary resources rapidly depleting, the recovery of valuable metals from secondary sources such as electronic waste (e-waste) has become a critical global priority. This urgency is underscored by the fact that over 50 million tonnes of e-waste are generated annually worldwide, yet less than 20% is formally recycled. Addressing this growing challenge sustainably has garnered international attention, including from the United Nations. This Topical Collection focuses on sustainable technologies for metal recovery from e-waste, providing an alternative to conventional, high-temperature, energy-intensive, and polluting chemical processes. Sustainable methods, encompassing mechanical, hydrometallurgical, bio-hydrometallurgical, pyrometallurgical, and hybrid approaches, aim to recover metals with minimal environmental impact, lower chemical consumption, energy efficiency, and improved economic viability.

Collection Editors

Dr. Fatemeh Pourhossein

Dr. Homayoun Fathollahzadeh

Dr. Hugo Marcelo Veit

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

mdpi.com/journal/minerals

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Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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