Special Issue

Current Status of Electronic Waste Management and Value Recovery Operations—a Step towards the United Nations Sustainable Development Goals (SDGs)

Message from the Guest Editors

E-waste value recovery operations are crucial. State-of-the-art integrated pyrometallurgical and hydrometallurgical are carried out on a large scale in developed countries to recover many metals, though semi-formal hydrometallurgical methods and artisanal methods have been the norm in developing countries to separate copper and gold, which are the most concentrated and highly valuable elements in e-waste, respectively. However, the sustainability of these conventional methods remained questionable as they involve the vast disposal of solid waste and used acidic solutions that have adverse impacts on the environment. Both sustainable e-waste management methodologies and value recovery operations are thus required to improve the current low recycling levels throughout the world and foster the United Nations Sustainable Development Goals (SDGs). This Special Issue invites papers that: 1) present effective e-waste management techniques, including case studies, 2) discuss e-waste value recovery methods, flowsheets and waste management aspects, and 3) present e-waste reuse as a methodology to alleviate generation.

Guest Editors

Dr. Saman Ilankoon

School of Engineering, Monash University Malaysia, Jalan Lagoon Selatan, Bandar Sunway, Selangor Darul Ehsan 47500, Malaysia

Dr. Hugo Marcelo Veit

LACOR–PPGE3M, Federal University of Rio Grande do Sul, Porto Alegre 90040-060, RS, Brazil

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

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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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