

Special Issue

Sustainable Electronic Waste Treatment and Recovery of Valuable Metals

Message from the Guest Editors

The circular economy is a sustainable concept that aims to help eliminate global warming. E-waste is one of the fastest-growing waste streams. It is necessary to invent technologies that allow the recycling of valuable metals from e-waste, such as old smartphones and batteries, to be used in new smartphones and lithium-ion batteries. Sampling procedures from discarded smartphones, circuit boards, and batteries are crucial for processing. Hydrometallurgical processes are a suitable alternative for increasing the purity of base metals (Cu, Ni, and Co, etc.) and obtaining noble metals (Au and Ag). This Special Issue aims to publish original research articles in areas related to the development of new technologies for recycling e-waste. Contributions that use the methods of LCA assessment for comparing products such as smartphones or electromobility and processes focused on environmental and economic aspects and impacts will also be greatly appreciated. Keywords

- Sustainable recycling of e-waste;
- Environmental recycling technologies;
- Circular economy;
- LCA assessment;
- Processing of unconventional earth resources.

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