# Special Issue

# Electronic Waste: Management and Recovery Technologies

### Message from the Guest Editor

Currently, the recycling, management, recovery, and reuse of electronic waste (e-waste) represent a great challenge at the global level, especially because they contain components that are harmful to humans and generate large environmental pollution. From a scientific and technological point of view, there are two aspects that are key in this type of waste and that it is necessary to address: The great environmental impact they generate due to metals that leach the medium (arsenic, selenium or antimony, among others), and secondly, the enormous possibilities of recovery of these metals and the economic value that they can generate, since they are chemical elements, such as gold, tantalum, platinum or palladium, as well as some rare earths. This Special Issue aims to shed light on the latest advances and research carried out for the correct management of electronic waste as well as to delve into the latest techniques and applications for the recovery and reuse of chemical elements with high added value. **Keywords:** e-waste; recovery; management; environmental impact; circular economy; rare earths; leaching; regulations; hydrometallurgy; magnetic separation

**Guest Editor**

Prof. Dr. Luis Pérez Villarejo

Department of Chemical, Environmental, and Materials Engineering, University of Jaen, 23700 Linares, Spain

**Deadline for manuscript submissions**

closed (31 December 2020)

**Applied Sciences**

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/26704

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

mdpi.com/journal/applsci

# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

# About the Journal

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## Author Benefits

**Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:**

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )