



Efficient Utilization of Metal Waste and Other Solid Waste

Guest Editors:

Dr. Albert Smalcerz

Department of Industrial
Informatics, Faculty of Materials
Science, Silesian University of
Technology, Krasinskiego 8, 40-
019 Katowice, Poland

Dr. Tomasz Maćula

Department of Metallurgy and
Recycling, Faculty of Materials
Science, Silesian University of
Technology, Krasinskiego 8, 40-
019 Katowice, Poland

Prof. Dr. Jerzy Łabaj

Department of Production
Engineering, Faculty of Materials
Science, Silesian University of
Technology, Krasinskiego 8, 40-
019 Katowice, Poland

Deadline for manuscript
submissions:

closed (20 June 2024)

Message from the Guest Editors

Dear Colleagues,

One of the elements determining the sustainable development of civilization is the appropriate quantity and quality of metals used in the construction of new engineering solutions. Due to dwindling resources, producing metals from primary raw materials is becoming more and more expensive for manufacturers and poses an increasing burden on the natural environment. Therefore, it is necessary to effectively replace this type of raw material with the effective use of metal scrap and other secondary raw materials that are carriers of metals, including rare and critical ones. By recycling this type of waste, we reduce the number and size of places needed for their safe storage, and when used in metal production technological processes, we provide the necessary energy, either replacing natural minerals or with the material supplementing raw materials.

The Special Issue provides access to the latest, breakthrough technologies in the field of use and utilization of secondary raw materials.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Materials Science, Multidisciplinary) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)