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Recycling of Metal-Based Compounds for Energy and Technology Applications

Guest Editor:

Dr. Claudio Pistidda
Helmholtz-Zentrum Hereon GmbH, Institute of Hydrogen Technology, Max-Planck-Straße 1, 21502 Geesthacht, Germany

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Message from the Guest Editor

Metals play a crucial role in supporting the global economy and the wellbeing of humankind. Via supporting the constantly increasing demands of metal-based products, the extraction of mineral resources has increased at a faster rate than economic growth. In this scenario, the recycling of metals from materials or products that reached their end of life allows saving resources and energy while simultaneously preventing the depletion of virgin natural sources and the release of harmful pollutants into the environment. In facing challenges ahead of our society such as climate change, energy supply, energy storage, and transportation, the sustainability of the developed materials and technologies must be kept into account.

The purpose of this Special Issue is to publish original high-quality research papers, as well as review articles addressed to the recycling and/or development of energy-related materials and technologies. Potential topical areas include, but are not limited to: recycling in hydrogen technology, battery technology, carbon capture and utilization technologies, solar energy harvesting applications, catalysts relevant to energy applications and transportation sector.

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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