



Sustainability Approaches in the Recycling of Light Alloys

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Message from the Guest Editors

This Special Issue aims to explore the latest advances and approaches to sustainability in light alloy recycling. Contributors to this Special Issue are invited to submit innovative research, review articles, and case studies that highlight new methods, technologies, and strategies for recycling light alloys. Topics of interest include, but are not limited to:

- 1) Advances in light alloy scrap sorting and separation technologies.
- 2) New melting and purification techniques to improve the quality of recycled alloys.
- 3) Life cycle assessment and environmental impact analysis of light alloy recycling.
- 4) Development of alloys designed to facilitate recycling at the end of the product life cycle.
- 5) Case studies on the implementation of circular economy principles in the light alloy industry.
- 6) New recycling processes for light alloy scrap (e.g., solid-state recycling processes).





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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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