

Special Issue

Selected Papers from the 4th International Conference on Light Materials LightMAT 2021

Message from the Guest Editors

Since the beginning of industrial production in the late eighteenth century, the demand for light metals has increased steadily. Metallic light materials, such as aluminum, and magnesium alloys as well as titanium alloys, provide an excellent impact toughness, a good wear, and thermal resistance, as well as a high life cycle fatigue along with moderate materials and processing costs and, furthermore, an outstanding recyclability. The 4th International Conference on Light Materials LightMAT 2021 (<https://dgm.de/lightmat/>) gives a comprehensive overview and new insight into the three most important light metals: aluminium, magnesium and titanium, and their combinations. In addition, the conference will focus on eco-efficiency in materials and processes.

This Special Issue on light materials is set to publish selected works presented at this event, in order to share recent progress and new achievements in this emerging field with broader scientific and industrial communities.

Guest Editors

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About the Journal

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.

Editors-in-Chief

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