

Special Issue

Manufacture, Properties and Applications of Light Alloys

Message from the Guest Editor

In the context of carbon neutrality policies worldwide, light alloys, including magnesium alloys, aluminum alloys, and titanium alloys, with their high specific strength, are used as structural materials, where being lightweight is crucial for reducing CO₂ emissions. Thus, extensive research on the manufacture, microstructure, properties and applications of these materials is of great importance. A deep understanding can be reached from both fundamental and applicational studies conducted at different levels, on the atomic scale, mesoscale, and macroscale. This Special Issue aims to collect original research and review articles on the manufacture, microstructure, properties and applications of light alloys. Manuscripts, including experimental or simulation methods, are all welcome.

Guest Editor

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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.

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