



Development and Exploration of Alloys: Mechanical Properties and Microstructures

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Deadline for manuscript
submissions:

closed (10 June 2023)

Message from the Guest Editors

Dear Colleagues,

Although humankind has been using and developing alloys for thousands of years, the search for the continuous improvement of their properties and new applications with more demanding requirements continues. Industrial and technological advances go hand-in-hand with developing new metallic materials with higher performance, durability, and a more sustainable cradle-to-tomb cycle.

This Special Issue is intended to be a compilation of the latest advances in the development of alloys, the improvement of existing ones, and new fabrication routes. It will mainly emphasize their outstanding mechanical properties and microstructural features' evolution.

The acceptance criteria do not restrict any alloy type, application, or characterization technique, although the articles must show significant advances in the field, accompanied by high-scientific-level discussion.

Keywords:

- new alloys for advanced applications
- non-conventional mechanical characterization
- in-depth microstructure analysis
- cutting-edge manufacturing routes
- advances in metallurgy





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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

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