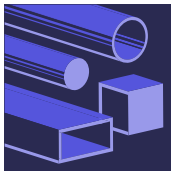

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Message from the Editor-in-Chief

All of the significant challenges that our modern society faces, such as energy conversion and storage, green processing, and material recycling, will require the development of engineering solutions. Advanced alloy technologies and processes will form a critical platform for these new solutions. Moreover, disruptive technologies such as additive manufacturing have reinvigorated metallurgical research—it is certainly an exciting time to be in this field of research. Contributions are sought on new developments that help us to understand the inter-relationship between microstructure, properties, and processing of alloys. We are seeking new insights, creative approaches, and alternative methodologies that will help us to unravel the answers to scientific questions and develop new technologies based on modern metallic alloys.

Editor-in-Chief
Prof. Dr. Nikki Stanford

Aims

Alloys (ISSN 2674-063X) is an international, peer-reviewed, open access journal on alloys. It publishes reviews, regular research papers (articles), and communications. Our aim is to publish timely experimental and theoretical research results in a rapid and readily accessible manner.

Manuscripts dealing with alloys and the relationship between the microstructure, properties and processing of all kinds of alloys, including experimental, theoretical and computational research, are welcome.

Scope

The scope of *Alloys* covers the preparation, characterization and application of all alloys. The main subject areas include, but are not limited to, the following:

- Ferrous alloys including all steel grades;
- The light alloys: Al, Mg and Ti;
- High entropy alloys, bulk metallic glasses and intermetallics;
- Alloys of the less commonly researched metals such as alloys of Cu, Zn, Pb, Mo and the rare earth elements;
- Special alloys such as those designed for corrosion resistance, high temperature performance; hydrogen storage and magnetic properties;
- Research into alloy processing technologies such as thermo-mechanical processing, casting and additive manufacturing;
- Theoretical and computational analysis of alloys such as phase field modelling, atomic-scale modelling and thermodynamic analyses;
- Characterisation of alloys at all length scales;
- Alloy properties and performance such as strength, fatigue, corrosion, wear and formability.

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