Special Issue

Combinatorial Investigations of Alloys

Message from the Guest Editor

Unveiling the relationships among the composition, microstructure, and properties of alloys is crucial not only to achieve a fundamental understanding of existing material systems but also for the discovery of novel alloys with unprecedented properties. Combinatorial materials science is an emerging field and has facilitated the composition–microstructure–property mapping of various alloys. Furthermore, with the help of the modern progress of the accelerated and automated measurement schemes (e.g., high-throughput experiments), it is now possible to efficiently acquire mechanical, thermal, electrical, and physical/chemical properties of a broad range of alloys. In this Special Issue, original research articles or critical review articles on the following topics shall be published: Combinatorial experimental or computational studies of alloys; Novel high-throughput techniques for rapid characterizations of multicomponent alloys; Data-driven (or machine-learning-based) investigations of alloys. I am glad to invite you to submit your work to the Special Issue, “Combinatorial Investigations of Alloys”.

Guest Editor

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Deadline for manuscript submissions

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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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