

Special Issue

Research on the Structure and Properties of Alloy Materials

Message from the Guest Editors

The structure of metallic materials plays a pivotal role in determining their mechanical, physical, and chemical properties, which directly influence their performance, durability, and reliability in demanding applications. In recent years, rapid advancements in alloy design, innovative processing methods, and surface engineering have enabled unprecedented improvements in microstructural control and performance optimization. Understanding the interplay between composition, processing, and structural evolution through mechanisms such as heat treatment, phase transformations, plastic deformation, and defect formation has become essential for meeting the stringent requirements of industries including aerospace, automotive, energy, and biomedical engineering.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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