



## Microstructural and Mechanical Characterization of Alloys

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### Message from the Guest Editors

Mechanical properties of alloys are determined by the type of the metal microstructure, characterized by the chemical composition and the crystalline structure of phases, the size and shape of grains of the particular phases and their mutual distribution, the extent of crystal lattice defects, and the way of spacial distribution of the defects. The microstructure of alloys is shaped through building a proper chemical composition and selecting the right conditions of the applied heat, thermochemical or plastic treatment.

We invite researchers to submit papers related to alloys (engineering materials) to discuss potential materials, the method of improvement of strength and cyclic properties of alloys, the stability of microstructures, the possible application of new (or improved) alloys, and the use of treatment for alloys improvement.





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## Message from the Editor-in-Chief

Crystals are a very important class of structured material, both from a scientific and technological viewpoint. In 2011, the Nobel Prize in Chemistry was awarded to Dan Schechtman for his work on quasicrystals. Our journal already expresses in its name *Crystals* that its focus centers around all aspects of this class of materials, which has fascinated humankind from its beginning. Despite decades of research on crystals, it remains a hot and fascinating research topic.

*Crystals* is a good platform for dissemination of knowledge in this area.

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