Special Issue

Microstructural and Mechanical Characterization of Alloys

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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Deadline for manuscript submissions

closed (30 April 2020)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/27896

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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