Special Issue

Microstructural and Mechanical Properties of Metallic Materials

Message from the Guest Editor

Various metallic materials are applied to industrial fields and real life. The mechanical properties or behaviors of the material are often governed by their microstructural characteristics. It is also possible to improve the mechanical properties of the material through microstructural evolution using various methods, such as heat treatment, surface treatment, and plastic deformation. Therefore, analyzing the microstructural properties of metallic materials helps us to understand the mechanism of the mechanical behavior of the material and to optimize the manufacturing process of the material. This Special Issue covers all aspects of the microstructure, mechanical properties of metallic materials, ranging from conventional ferrous and nonferrous alloys, subjected to different processing methods. Studies focusing on the theoretical simulation and experimental analysis of the microstructural and mechanical behaviors of metallic materials are also welcome.

Guest Editor

Dr. Young-Min Kim

Advanced Joining & Additive Manufacturing R&D Department, Korea Institute of Industrial Technology (KITECH), Incheon 21999, Republic of Korea

Deadline for manuscript submissions

closed (15 June 2020)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/28595

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)