

Special Issue

Microstructure, Corrosion and Mechanical Properties of Magnesium Alloys

Message from the Guest Editor

Magnesium alloys have garnered increasing recognition as the lightest structural metal, boasting impressive characteristics such as remarkable specific strength, castability, formability at high temperatures and damping capacity. This Special Issue has the clear objective of establishing an inclusive forum for materials scientists and engineers to exchange and distribute the latest research breakthroughs concerning the properties of magnesium alloys. The potential subjects covered in this Special Issue are microstructure evolution, new alloy development, heat treatment, plastic deformation, mechanical properties, surface treatment, corrosion and corrosion protection. It warmly welcomes original research and review articles.

Keywords:

- magnesium alloys
- alloy development
- plastic deformation
- microstructure
- mechanical properties
- corrosion

Guest Editor

Dr. Hüseyin Zengin

Institute of Chemical Technology of Inorganic Materials (TIM), Johannes Kepler University Linz, 4040 Linz, Austria

Deadline for manuscript submissions

closed (30 September 2024)



Metals

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.3



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

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering,
State Key Laboratory for Advanced Metals and Materials, University of
Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083,
China

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