Special Issue

Electron Beam Treatment Technology in Metals

Message from the Guest Editor

It is my pleasure to announce the Special Issue "Electron Beam Treatment Technology in Metals", which will be published in the journal *Metals*. It will serve as an international medium for discussion of topics contributing to a better understanding of treatment techniques of metals and alloys using electron beams, the manufacturing of novel metallic materials, the modification of their structure and properties, the modeling of the processes, etc. This technology has many advantages, which allows for the control of the structure and properties of materials, low cost, significantly shorter time needed for fabrication in comparison with the traditional methods, easy manufacturing of products with complex geometry, and others. This Special Issue aims to collect articles discussing the topics related to the application of surface treatment using electron beams, electron beam alloying, cladding, deposition of novel materials, additive manufacturing, surface sculpturing and freeform fabrication, modeling, etc. The Special Issue covers all aspects of the electron beam treatment of metal materials and alloys. Full papers, like articles, communications, and reviews are welcome.

Guest Editor

Prof. Dr. Peter Petrov
Institute of Electronics Bulgarian Academy of Sciences, Sofia, Bulgaria

Deadline for manuscript submissions

closed (30 June 2021)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/37856

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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
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Author Benefits

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

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).

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