



Electron-Beam Technology for High Performance Alloys, Metals and Powders

Guest Editors:

Dr. Elena Koleva

1. Institute of Electronics,
Bulgarian Academy of Sciences,
1784 Sofia, Bulgaria
2. Department of Industrial
Automation, University of
Chemical Technology and
Metallurgy, 1756 Sofia, Bulgaria

Dr. Katia Vutova

Institute of Electronics, Bulgarian
Academy of Sciences, 1784 Sofia,
Bulgaria

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear colleagues,

This Special Issue collects papers with the aim to present the state of the art and some of the latest achievements in the field of electron beam process investigation, electron beam process research and development, high-performance alloy, metal, and powder treatment and their material properties, process analyses, application of advanced mathematical methods for modeling and simulation, and integrated and intelligent process control and management. Particularly relevant are papers that investigate and present new technology or application development, implementation of advanced methods or intelligent solutions, present investigations for physical problem technology solutions, and high-performance alloy, metal, and powder presentation after electron beam treatment, as well as the implementation of different approaches for electron beam process modeling and simulation.

Guest Editors





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science
and Engineering, College of
Engineering & Applied Science,
University of Wisconsin-
Milwaukee, 3200 N. Cramer
Street, Milwaukee, WI 53211, USA

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

Message from the Editorial Board

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.

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), Inspec, Ei Compendex, CAPus / SciFinder, and other databases.

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

Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)