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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

Prof. Dr. Katia Vutova
Institute of Electronics, Bulgarian Academy of Sciences, 1784 Sofia, Bulgaria

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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

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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

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.

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Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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metals@mdpi.com
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