

Special Issue

Mesoscopic Changes in Conventional and Innovative Processing Technologies

Message from the Guest Editor

The nature of the microstructural changes involved in the production of polycrystalline metallic systems is strongly affected by the variety of technological parameters in each particular step of the thermomechanical processing chain. The mesoscopic transformations are revealed by means of a vast variety of materials characterization techniques as well as a broad spectrum of numerical methods. In many instances, the performance of conventionally produced materials is delimited by the bounds of the processing sequence and cannot be further improved due to numerous technological limitations; therefore, investigation of entirely new processes which are still far away from industrial implementation is of crucial significance. In this Special Issue, we intend to provide a broad range of scientific contributions dealing with microstructural aspects of both conventionally and non-conventionally processed metallic materials. Contributions dealing with the tailoring of microstructural features for particular purposes are of great interest.

Guest Editor

Prof. Dr. Jurij J. Sidor

Savaria Institute of Technology, Faculty of Informatics, Eötvös Loránd University, Károlyi Gáspár tér 4, 9700 Szombathely, Hungary

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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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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.

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

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