

## Special Issue

# Modelling the Deformation, Recrystallization and Microstructure-Related Properties in Metals

### Message from the Guest Editor

Experimental investigations of the thermomechanical processing (TMP) of metals clearly demonstrates that technological process tuning parameters have a great influence on both the microstructure and texture evolution. The mesoscopic transformations of polycrystalline aggregates, involving microstructural and crystallographic changes on the grain level, can be interpreted by a vast body of modelling approaches developed. Advances in modelling have created a solid platform for understanding the evolution of microstructural features in polycrystalline systems during particular processing step and assist in revealing the behavior of materials under specific circumstances. In this Special Issue, we intend to provide a wide spectrum of articles dealing with modelling of microstructural aspects involved in deformation and recrystallization as well as simulation of microstructure-based or texture-based properties in various metals. The latest advances in the theoretical interpretation of mesoscopic transformations based on experimental observations are welcome. The studies dealing with the modelling of structure-property relationships are of particular 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

### Deadline for manuscript submissions

closed (31 December 2019)



## Metals

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*Metals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto:metals@mdpi.com)

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## About the Journal

### 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.

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### 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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