

Special Issue

Metallic Magnetic Materials: Manufacture, Properties and Applications

Message from the Guest Editors

The advancement of magnetic materials has effectively promoted the development of modern society. This Special Issue is focused on the fabrication, microstructure, properties, and applications of various metallic magnetic materials, including but not limited to hard magnetic materials, soft magnetic materials, magnetocaloric materials, magnetostrictive materials, magnetoresistance materials, and magnetoelectric materials. Discussions of the preparation of metallic magnetic materials by means of traditional approaches, including casting, sintering, bonding, and plastic forming, and novel techniques, such as additive manufacturing and nanofabrication, are all welcome. We also encourage submissions related to the magnetic simulations of metallic magnetic materials by means of first principles, micromagnetic modelling, phase field calculation, etc. Work on novel magnetic structures and magnetism-related properties are particularly welcome. The magnetic technology and magnetic characterizations related to metallic magnetic materials may also be submitted.

Guest Editors

Prof. Dr. Zhongwu Liu

Dr. Hongya Yu

Dr. Youlin Huang

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

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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