Special Issue

Developments in Zinc Alloys: Material Properties and Processing

Message from the Guest Editors

Zinc alloys are found in many items of everyday life, for instance, in automotive and electronic devices, as well as in fashion and design fields. Lately, growing attention has been dedicated to the promising biomedical applications of zinc-based alloys as a result of their biocompatibility and degradability.
Because of the versatility of all of these materials, the current Special Issue focuses on the recent developments regarding zinc-based alloys under a broad range of topics/points of view. Studies on the characterization of the microstructural and mechanical properties and on the development of innovative alloys are encouraged. The Special Issue also welcomes papers dealing with innovations in zinc die-casting and manufacturing processes. Research articles on biomedical applications are also of interest, as well as investigations on wear and corrosion mechanisms.

Guest Editors

Prof. Dr. Annalisa Pola

Department of Mechanical and Industrial Engineering, University of Brescia, via Branze 38, 25123 Brescia, Italy

Dr. Marialaura Tocci

Department of Mechanical and Industrial Engineering (DIMI), University of Brescia, via Branze 38, 25123 Brescia, Italy

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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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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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