Special Issue

Modern Trends in Foundry

Message from the Guest Editors

At present, the requirements for the quality of metallic materials when it comes to achieving maximum efficiency of production continue to grow in number, with low cost expectations becoming higher and higher. From the point of view of individual metallurgical technologies, foundry presents the fastest way of production of the required parts of components. This Special Issue named “Modern Trends in Foundry” wants to present the foundry branch in its whole range and variety, covering the trends in modern foundry technologies. These include the choice of batch raw materials, adjustment of chemical composition of the melt, management of temperature regime, control of metallurgical process, aspects of refining processes, application of forming mixtures, casting way, thermal treatment of casts, recycling of foundry waste, as well as the environmental impact. Submitted papers should exhibit the trends in modern foundries, presenting research results and their industrial verification or application completed with modern methods presenting simulations of metallurgical processes.

Guest Editors

Prof. Dr. Mariola Saternus

Department of Metallurgy and Recykling, Silesian University of Technology, Krasińskiego 8, 40-019 Katowice, Poland

Dr. Ladislav Socha

Environmental Research Department, Faculty of Technology The Institute of Technology and Business in České Budějovice, Okružní 517/10, 370 01 České Budějovice, Czech Republic

Deadline for manuscript submissions

closed (30 November 2021)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/25373

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/journal/metals

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI