

IMPACT FACTOR 2.6



an Open Access Journal by MDPI

Prediction of Phase Stability and Mechanical Properties of Novel Alloys

Guest Editors:

Dr. Isaac Toda-Caraballo

Materalia Group, National Centre for Metallurgical Research (CENIM-CSIC), Av. de Gregorio del Amo No. 8, Madrid E-28040, Spain

Dr. Jan Wróbel

Faculty of Materials Science and Engineering, Warsaw University of Technology, ul. Wołoska 141, 02-507 Warsaw, Poland Center of Digital Science and Technology, Cardinal Stefan Wyszyński University, Warsaw, ul. Wóycickiego 1/3 Building 21, 01-938 Warsaw, Poland

Deadline for manuscript submissions:

closed (29 October 2021)

Message from the Guest Editors

The development of new materials has triggered and often revolutionized technological progress. Some of the human ages are named after the discovery of new materials, such as the Bronze Age and the Iron Age, since these metals allowed significant development of humanity in many ways. At the present time, the amount and types of materials used are vast, and modern applications in energy, aeronautics, automotive, space, chemical, machinery, electrical, scientific equipment, construction, packaging, computing, and health are hardly conceivable without the use of materials with properties that suit their purposes.

This Special Issue of *Metals* on "Prediction of Phase Stability and Mechanical Properties of Novel Alloys" responds to the above-mentioned requirements for new materials. The areas of interest will cover the development of new and unexplored alloys with the use of predictive approaches for the purpose of explaining and predicting their microstructural and/or mechanical properties.











an Open Access Journal by MDPI

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

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 metallurgical field the ranging from processing. and mechanical behavior. phase transitions microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Author Benefits

Open Access: free for readers, with <u>article processing charges (APC)</u> paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science),

Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy and Metallurgical Engineering*) / CiteScore - Q1

(Metals and Alloys)

Contact Us

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