







an Open Access Journal by MDPI

# Advances in High Entropy Alloys and High Entropy Carbides: Microstructural and Mechanical Properties and Modeling

Guest Editors:

## Dr. Weidong Zhang

College of Materials Science and Engineering, Hunan University, Changsha 410082, China

#### Dr. Yuankui Cao

State Key Lab of Powder Metallurgy, Central South University, Changsha 410083, China

Deadline for manuscript submissions:

20 October 2024

# **Message from the Guest Editors**

This Special Issue aims to publish scientific papers on the topic "Advances in High-Entropy Alloys and High-Entropy Carbides: Microstructural and Mechanical Properties and Modeling". Contributions may include original scientific articles or review articles concerned with fundamental and applied aspects of research or direct applications of highentropy alloys (HEAs) and high-entropy carbides (HECs).

This Special Issue will provide readers with up-to-date information on recent progress in microstructural, mechanical properties and modeling of HEAs and HECs. Papers submitted to this journal are expected to be in line with the following aspects:

- Fabrication, characterization, and processing of HEAs and HECs:
- Atomic structure and computational simulation of HEAs and HECs:
- Mechanical properties and fracture mechanism of HEAs and HECs;
- Rules of the phase formation in HEAs and HECs;
- Special HEAs and HECs under extreme environments (refractory, rare earth, high or low temperature, high strain rate, irradiation).













an Open Access Journal by MDPI

## **Editor-in-Chief**

## Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## **Message from the Editor-in-Chief**

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials. materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## **Author Benefits**

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

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

### **Contact Us**