Special Issue

High-Entropy Alloy: Formation, Microstructure, and Properties

Message from the Guest Editors

High-entropy alloys (HEAs) that were developed by mixing equimolar or near-equimolar multiple principal elements into alloys have attracted research attention in recent years. This has opened a new field of “metal harmony” and has been further applied in many fields such as transportation, structural materials, and biomedical science. The most remarkable feature of HEAs is their high mechanical performance, and their ability to achieve a balance between strength and toughness. In addition, HEAs exhibit excellent fatigue performance and also achieve excellent specific strength. This special issue correlates the properties improvement in terms of phase formations, microstructural variations, and stress-strain curves. In particular, the topic of interest includes but is not limited to

- Physical or mechanical properties of HEAs;
- Microstructure evolution of HEAs;
- Phase formations of HEAs;
- Processing methods of HEAs

Guest Editors

Prof. Dr. Chang-Wei Huang

Department of Civil Engineering, Chung Yuan Christian University, Chung-Li, Taiwan

Dr. Yu-Chieh Lo

Department of Materials Science and Engineering, National Chiao Tung University Taiwan, Hsin-chu, Taiwan

Deadline for manuscript submissions

closed (1 May 2022)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/93047

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

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/journal/coatings

About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan
State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy
NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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), Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

MDPI