



Advances in High-Entropy Alloy Coatings: Preparation, Properties, and Applications

Guest Editors:

Dr. Jingbin Hao

School of Mechanical and Electrical Engineering, China University of Mining and Technology, Xuzhou 221116, China

Dr. Hao Liu

School of Mechanical and Electrical Engineering, China University of Mining and Technology, Xuzhou 221116, China

Dr. Haifeng Yang

School of Mechanical and Electrical Engineering, China University of Mining and Technology, Xuzhou 221116, China

Message from the Guest Editors

Dear Colleagues,

The remarkable properties of high-entropy alloys (HEAs), which include exceptional strength, enhanced hardness, and superior thermal stability, are redefining the potential of advanced coating materials. HEAs, characterized by their multi-principal element composition, offer a paradigm shift in coating technologies that may contribute to the advancement of surface engineering applications. This Special Issue, "Advances in High-Entropy Alloy Coatings: Preparation, Properties, and Applications", invites contributions that highlight the latest developments in HEA coatings, including their preparation, characterization, performance, and application.

Deadline for manuscript submissions:

20 December 2024





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

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Surfaces, Coatings and Films*)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI