Special Issue

High Entropy Alloy Films

Message from the Guest Editor

In recent years, a counterpart of the HEA, the HEA film (HEAF), has been developed. Different technologies have been adopted to fabricate HEAFs, including sputtering, electrodeposition, spraying, laser cladding, and plasma-transferred arc cladding, etc. Compared to HEAs, HEAFs possess different structures and properties. Experimental results have also shown the excellent mechanical and physical properties of HEAFs.

This Special Issue, entitled “High Entropy Alloy Films” addresses the current understandings, new development, and challenges in a wide range of topics on HEAFs. The aim of this Special Issue is to provide a platform to bring together high-quality research and innovative ideas, and to bridge the gap between the fundamental research and applications for HEAFs. In particular, the topics of interest include, but are not limited to:

- Thin film technologies
- Composition design
- Structures and properties
- Hardening and strengthening
- Modeling
- Applications

Guest Editor

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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.

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