

Special Issue

Microstructure and Properties of High Entropy Alloy Coatings

Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue on “Microstructure and Properties of High Entropy Alloy Coatings”. Many coating methods can be used to improve the surface performance of alloys. The properties of coatings, such as mechanical properties and physical properties, strongly depend on their microstructure and fabrication methods. The scope of this Special Issue includes various coating techniques applied to high entropy alloys (HEAs), such as laser cladding, thermal spray coating, vapor deposition, plasma-transferred arc-cladding, and mechanical alloying. This Special Issue aims to present the recent developments in high entropy alloy coatings. Also, it focuses on the effects of oxide dispersoids on the properties of HEA coatings for elevated temperature applications. In particular, the topics of interest include, but are not limited to, the following:

- High entropy superalloy coatings;
- Eutectic high entropy alloy coatings;
- Refractory high entropy alloy coatings;
- Lightweight high entropy alloy coatings.

Guest Editor

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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.

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