

Special Issue

Amorphous and High-Entropy Alloy Coatings

Message from the Guest Editors

Amorphous and high-entropy alloy coatings present high hardness/strength and excellent wear as well as corrosion resistance, and thus have been widely utilized to enhance the surface performance of structural materials. These coatings can be obtained using different processes, such as HVOF, laser cladding, plasma spraying, cold spraying, and others. In recent years, a number of investigations into these coatings have been made in terms of their synthesis, microstructures, properties, mechanisms, and applications from the viewpoint of simulations and experiments. This Special Issue is mainly focused on the current status of the research and development of amorphous and high-entropy alloy coatings concerning these related themes. It is expected that the related works can provide insights into the intrinsic characteristics and further industrial applications of these coatings.

Guest Editors

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

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