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

Prof. Dr. Jianqiang Wang

Dr. Xiaoming Wang

Prof. Dr. Ariosto Medina

Prof. Dr. Yong Zhang

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

mdpi.com/journal/metals

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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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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