

## Special Issue

# Amorphous and High-Entropy Coatings Synthesized by Magnetron Sputtering

### Message from the Guest Editor

This Special Issue focuses on contributions to improve our understanding of the characterization and efficiency of amorphous and high-entropy alloy coatings based on the relationships between processing and structure with performance, coating design, and size effects.

Amorphous and high-entropy coating has acquired important characteristics, including high strength, plasticity, and excellent wear resistance. Several coating techniques, such as magnetron sputtering, plasma transfer, thermal spraying, laser cladding, vacuum evaporation, and electrospark deposition, have also been successfully used to produce a wide range of amorphous and high-entropy alloy coatings on various substrates. Such innovations are expected to enter the coating industry and face the demands of various stress-bearing applications, including those in the mechanical and medical equipment industries. The topic of interest in the Special Issue includes but is not limited to:

- Microstructure and features;
- Mechanical properties;
- Technologies of coatings;
- Modeling of microstructure;
- Industrial applications.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 October 2021)



## Coatings

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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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