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Microstructure and Properties of Metal Alloy Coatings

Guest Editor:

Prof. Dr. Chun-Liang Chen
Department of Materials Science and Engineering, National Dong Hwa University, Hualien 97401, Taiwan

Deadline for manuscript submissions:
closed (30 April 2021)

Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue on "Microstructure and Properties of Metal Alloy Coatings". Many coating methods can be used to improve the surface performance of alloys. The mechanical properties and physical properties of coatings strongly depend on their microstructure and fabrication methods. The scope of this Special Issue includes various coating techniques applied for metallic materials, for example, laser cladding, thermal spray coating, vapor deposition, plasma-transferred arc-cladding, and mechanical alloying. The aim of this Special Issue is to present recent developments in the coatings of advanced metal alloys.

In particular, the topics of interest include, but are not limited to:

- High-entropy alloy coatings
- Amorphous alloy coatings
- Refractory metal coatings
- High-temperature coatings for superalloys
- Oxide dispersion-strengthened (ODS) 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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Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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