

Special Issue

Advanced Coatings with Noble and Refractory Alloy Metals in Extreme Environments

Message from the Guest Editor

Recent theoretical and experimental developments in noble metal and its alloy coatings, refractory metal coatings, and surface modification technologies are among the most highly exploited research systems in the field of materials science and engineering and engineering mechanical components.

This scope of this Special Issue will serve as a forum for papers in the following areas:

Theoretical and experimental research, knowledge, and new ideas in corrosion protective and preventive coatings mechanisms of noble metal and refractory metal coatings.

Recent developments in surface modification and strengthening techniques for multi-functional coatings, involving noble and refractory metals.

Coatings produced by different processes, including, but not limited to, additive manufacturing processes, thermal spray, laser and plasma processing, CVD, electrodeposition, etc.

Experiment and processing of high-performance coatings with exposure to high temperatures, high stress, and other extreme environment applications.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2025)



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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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