



Surface Modification and Functionalization of High-Temperature Alloys

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Message from the Guest Editor

Surface coatings are often an effective route for enhancing materials inherit properties. In particular, when structural compartments are exposed to high-temperature environments under an ambient atmosphere, surface protection is needed for the substrate, such as Mo- and/or Nb-based alloys, Ni-based alloys, Ti-based alloys, high entropy alloys or composites, and so on. Often the alloys are exposed to a high-temperature flame for a long or short time. In this regard, studies for advanced and compatible coatings are critical for the successful development of practical applications. In order to fulfil the task, theoretical and experimental efforts are needed for achieving repetitive and reliable properties. This Special Issue of *Coatings* focuses on the aforementioned areas. Our aim is to present the recent developments in this fast-moving field around the world.





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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.

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