



Coatings for High Temperature Applications

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Message from the Guest Editors

Dear colleagues ,

As we all know, high-temperature corrosion is a critical failure cause for many industrial sectors. To counteract these aggressive environments, very expensive alloys/ceramics are needed and coatings are required, so that the component's life is increased, and in some cases this allows for higher operating temperatures in order to increase process efficiency and reduce emissions.

In parallel, the development of new alloys such as high-temperature Ti alloys, intermetallics, and Mo-based alloys, and the fabrication of new processes such as additive manufacturing, have added further complexity to this already intricate sector.

We are being kept very busy trying to design new coating systems that are appropriate for the new materials and are also capable of withstanding the ever-growing variety of extremely corrosive environments. Fortunately, we have excellent tools to achieve these goals thanks to the development of novel microscopy and analytical techniques as well as deposition methods.





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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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