



Advances in the Science and Technology of Coating

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Message from the Guest Editors

Corrosion is a thermodynamic process that cannot be stopped but only controlled. Perhaps the most convenient is the use of coatings in which corrosion can be controlled. When coatings are applied, there are two main factors that can affect their integrity: external factors, such as environmental factors that can damage the material of the coating, and internal factors that mainly affect the adhesion of the coating to its substrate. The science of coatings must deal with both sets of factors: on the one hand, the quality of the coating ingredients must be sufficient to allow the formation of defect-free coverage on the substrate; on the other hand, the adhesion must be sufficiently high to ensure an excellent connection between the coating material and the substrate. The loss of sufficient adhesion can cause premature deterioration and failure of the coating, which, in turn, brings about a lot of unwanted environmental and economic consequences and costs.

In this Special Issue we would like to discuss the

Special Issue





coatings

an overall picture of the present and future of coating science and application that will address the issues mentioned above.



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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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