



Mechanical, Corrosive and Tribological Degradation of Metal Coatings and Modified Metallic Surfaces

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Message from the Guest Editors

Metallic surfaces and metal coatings are used in various industries as protective elements (mechanical and corrosive), catalyzing media, optical materials, substrates, electrical conductors, magnetic media, biomaterials, etc. However, their applicability is often limited and plagued by degradation, which is a key factor for long-lasting material usage from both economical and sustainability perspectives. Degradation is a crude label for deterioration of the material and/or its properties in exposed environment and/or condition, which can range from static and dynamic mechanical loading to corrosive media and biological factors down to cyclic grinding and surface interaction with other materials. As such, it is vital to understand how the individual properties of the used metal coatings and metallic surfaces temporally evolve and are modified within their used environments and conditions. So, we are launching a new Special Issue in MDPI Coatings that will collect original research articles and review papers on the degradation of metal coatings and modified metallic surfaces. Both theoretical and experimental papers as well as papers combining both aspects are welcomed.





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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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