

Special Issue

Recent Advances in Titanium-Based Coatings

Message from the Guest Editors

The applicability of titanium is increasing across different technological fields. Initially, these applications were mainly in the fields of aerospace and astronautical engineering. The unique properties of titanium enabled the use of light structures with high strengths. Recently, these assets have been used for medical applications, especially in implants. Titanium has excellent mechanical strength, good corrosion resistance and biocompatibility. These properties can be modified and improved with coatings. Among the different properties, coatings have allowed the improvement of wear resistance, fatigue and corrosion-fatigue behavior, as well as the ability to interact with biological tissues. Of special relevance is the latter property, which has directed research toward the use of biofunctionalized coatings of titanium to select the cellular response, which has imbued them with bacteriostatic, as well as bactericidal, properties, or even has allowed the production of biomimetic coatings. This Special Issue revolves around the advances in coatings that make titanium increasingly useful in the service of both people and society.

Guest Editors

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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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