

## Special Issue

# Design, Characterization and Applications of Functional Coatings

### Message from the Guest Editor

Dear colleagues,

In recent years, special attention has been paid to improving the efficiency of different industrial processes. The objectives are to increase productivity and energy and materials savings as well as to reduce the waste emissions of industrial processes. In this sense, surface treatments and advanced coatings must play an important role in achieving these objectives. The scope of this Special Issue is to serve as a forum for papers related to this scope and in the following concepts:

-Use of artificial intelligence and computational methods for the design of coatings and tailored surface treatments

-Development and new applications of nanostructured coatings using PVD, CVD, and plasma spraying techniques

-Coatings resistant to high temperatures and oxidation, with special attention to energy and chemical applications

-Applications and new developments of nanostructured coatings for tribological applications

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### Guest Editor

Dr. Jose Antonio García

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### Deadline for manuscript submissions

closed (20 October 2021)



## Coatings

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## About the Journal

### 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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### Editors-in-Chief

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