

Micro- and Nano-Coatings for Technological and Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

Concerning the most recent advances in the study of micro- and nano-coatings for technological and biological applications, the Special Issue will be an interdisciplinary volume devoted to the engineering and fundamental aspects of coatings features. The Issue is open for all coatings elaboration procedures and research investigations about the structure, micro- and nano-mechanical properties, oxidation and wear resistance, thermal protection, corrosion, diffusion resistance, hydrophilic/hydrophobic balance, and so on.

The different strategies and trends in coating development performance of nowadays are encouraged for presentation in this Issue, taking into account that, indeed, there is still a significant amount of research needed in order to enhance the available knowledge about the relationship between coatings properties and applications

The topics of interest are, but are not limited to, as follows:

- Passive micro-/nano-coatings on valve metals;
- Hybrid complex coating with bioactive components;
- Surface and interface engineering to improve the materials performance;
- The relationship between structure, properties, and materials applications.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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