

Advanced Functional Nanostructured Films and Coatings for Energy Applications, 2nd Edition

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

At present, the topic of energy represents a real emergency for humankind, and therefore must be considered a priority in scientific research. The natural resources of energy are not inexhaustible, and the use of those more immediately accessible is not free of drawbacks such as environmental pollution. Energy is required in any industrial/domestic technology, and, consequently, finding a solution for these energy needs is a matter of universal relevance. Material science plays a key role in this process of renewing the type of energy resources we can exploit. Advanced materials surely have a strategic role in this energy transition process. Physical phenomena always occur at interfaces between different solid phases. Interfaces have a key role because their extension only amplifies the physical phenomenon. Finally, surfaces, interfaces, coatings, and thin films will have a significant role in this energy transition. For these reasons, we propose a Special Issue highlighting the overlap among energy-related issues, surface science/technology, and nanostructuration



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Special Issue

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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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