

Surface Engineering of Nanomaterials for Catalysis and Environmental Applications

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Message from the Guest Editors

Dear Colleagues,

The novel generations of engineered nanostructures, also known as designed and functionalized nanomaterials, has opened up new possibilities in relevant applications such as biomedical approaches. New materials with intriguing physical and chemical properties provide opportunities to address these challenges. Understanding the physicochemical, structural, microstructural, surface, and interface properties of nanomaterials is vital for achieving the required efficiency, cycle life, and sustainability in various technological applications.

The present Special Issue intends to publish original research and review articles on the state-of-the-art of design and synthesis of new nano- and micro-structured materials for energy, catalysis, and environmental applications. Submissions of articles which combine experimental and theoretical approaches are particularly encouraged. Purely computational studies providing new methodologies to be used in synergy with experimental techniques and in improving the current mechanistic understanding of nanomaterials application in energy, catalysis, and environment will be also considered.

We look forward to your contributions.





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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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