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Functionalization of 2D Nanomaterials for Catalytically-Driven Processes

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Message from the Guest Editors

This Special Issue aims to attract contributions covering the field of two-dimensional (2D) nanomaterials, or more precisely, functionalized 2D nanostructures with advanced catalytic properties. Functionalization of 2D nanostructures prevents (re)aggregation during wet processing and extends the scope of their applications by the incorporation of functional units on their surface/periphery. Over the last decade, an interdisciplinary interest in these unique materials has emerged. In this Special Issue, we intend to provide a platform for experts on the topic to present their latest results dealing with 2D functionalized nanomaterials for energy, environmental, and medical catalytically-driven processes.

As Guest Editors, we expect that excellent works on the functionalization of 2D nanomaterials for catalytically-driven processes will be collected in this Special Issue, which will act as a useful tool not only for specialists in the field but also for the broader readership of the journal.



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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