

Special Issue

Properties and Structure of Templated and Hydrogel-Related Nanomaterials

Message from the Guest Editors

The social and industrial demand for new materials with specific and efficient properties has turned this area into a fundamental axis of human development. There are innumerable routes, syntheses, and procedures to obtain these materials. However, the template method is possibly the most widely used. In this procedure, the template or scaffolding plays a decisive role in determining the morphology, architecture, and fundamental characteristics of the material to be developed. A special type of scaffolding is the so-called "soft scaffolding". Within this class, hydrogels have experienced a great interest, especially in the design of materials for biomedical applications such as tissue engineering, bone regeneration, drug delivery, cellular support, biological sensing or theragnostics. The aim of this special issue is to provide a broad and critical overview of the current state-of-the-art in this field, focusing on both the most novel synthetic routes and the most daring applications.

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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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