Special Issue

Supramolecular Nano-architectures

Message from the Guest Editors

Research on supramolecular chemistry has attracted growing interest from the worldwide academic community and has allowed the emergence of cross-disciplinary studies. Using synthetic strategies, where all facets of chemistry are involved (organic, inorganic, solid-state, polymer, biological), complex systems with functionalities beyond the reach of single molecules have been devised and have risen to the stage where they find applications in technologically-important fields. Several nano-structured systems are already being used as innovative advanced materials or as precursors to novel organic–inorganic hybrids, providing promising applications in optics, electronics, mechanics, membranes, functional and protective coatings, catalysis, sensors and biology.

The purpose of this Special Issue is to stimulate the publication of high-quality research articles, as well as reviews, that seek to address recent achievements in the preparation, characterization and application of supramolecular-designed nano-architectures, and exciting new developments in related aspects of supramolecular science, including future prospects and technological challenges.

Guest Editors

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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.

Editor-in-Chief

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