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Self-Assembly and Applications of Soft Nanomaterials

Guest Editor:

Dr. Domenico Lombardo
Consiglio Nazionale delle Ricerche, Istituto Processi Chimico-Fisici, (CNR–IPCF), 98158 Messina, Italy

Deadline for manuscript submissions:
closed (31 July 2022)

Message from the Guest Editor

Recently, the synthesis of novel chemical structures and the efficient use of soft and supramolecular interactions can generate novel structural properties and new protocols for the design of novel materials with nanoscale ordered morphologies suitable for advanced applications in nanotechnology. We invite researchers to contribute original research articles as well as review articles that investigate the self-assembly processes involving macromolecules block units that can be considered prominent example of the bottom-up approach in modern nanotechnology.

Potential topics include, but are not limited to:

1. Basic properties and self-assembly processes of macromolecular in bulk phases, surfaces, and interfaces
2. Synthesis and characterization of novel (macro)molecules and smart materials
3. Novel supramolecular assemblies for nanoarchitectonics material application
4. Nanomaterial-based technologies for sustainability, renewable energy and environmental issues
5. Application of amphiphilic macromolecules and supramolecular nanostructures to industrial processes
6. Theoretical modelling and computer simulation studies of new problems in nanomaterial self-assembly

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Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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