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Design of Micro- and Nanoparticles: Self-Assembly and Application

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Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Nanomaterials* “Design of Micro- and Nanoparticles: Self-Assembly and Application”, aims at collecting articles or reviews that highlight synthesis, modification, properties, and applications in various areas related to M&NPs. We would like to invite scientists of diverse backgrounds (material science, organic and inorganic chemistry, biochemistry, and biology) to contribute their works to this Special Issue.

Potential topics include but are not limited to the following topics:

- The synthesis and application of micro/nanoparticles based on self-assembly
- Micro/nanoparticles surface functionalization
- Micro/nanoparticles interaction with biomolecules
- Design of novel hybrid organic-inorganic micro/nanoparticles
- The role of micro/nanoparticles in molecular recognition
- The studies of the biological activity and toxicity of micro/nanoparticles

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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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