Special Issue

Micro/Nano-Swimmers, Robots, and Motors: Fabrication and Applications

Message from the Guest Editors

Recent developments of drug delivery systems based on micro- and nanomotors show the possibility of finally reaching applications, enabling new possibilities to combat diseases like cancer, as well as improve environmental remediation. This Special Issue of Nanomaterials aims to present the current state-of-the-art in the fabrication and use of nanoparticles and nanofilms as well as other nanocomposite systems in the field of drug delivery and guidance of micro-/nano-swimmer, robots, and motors. The importance of nanoparticles is based on the fact that they bridge clusters of atoms over microparticles up to solid materials. The importance of nanoparticles and nanofilms is highlighted especially by their surface properties, determining the behavior and biocompatibility of the micro- and nanomotors. In this context, microparticles and films are in the mesoscale bridging the gap to the macroscopic scale. In the present Special Issue, we would like to invite everyone who can significantly contribute to this research field with the aim of giving a balanced view of the current state-of-the-art in this discipline.

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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