

Special Issue

Recent Progress in TiO₂ Nanostructures

Message from the Guest Editor

Over the last years, the use of TiO₂-based nanostructures has constantly evolved and expanded, propelling these materials to a leading position in different areas of nanoscience and nanotechnology. In this regard, these architectures are known to play a pivotal role in the fields of energy conversion, organic synthesis and environmental remediation, although applications in sensing, drug delivery, theranostics, antibacterial devices, and tissue engineering have experienced substantial growth owing to the thriving biomedical sciences. In order to support further advances in these research fields, this Special Issue aims to gather recent efforts on the design, synthesis and applications of titanium dioxide nanostructures. Due to their widespread use and, consequently, their increasing exposure potential, studies on the assessment of the toxicity and biocompatibility of these materials are also encouraged.

Guest Editor

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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

Prof. Dr. Eugenia Valsami-Jones

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