Special Issue

Titanate Nanostructures

Message from the Guest Editor

Research interest in the area of polytitanate-based nanostructures has been increasing steadily in the past decades because of their unique structure- and size-dependent physicochemical properties. These materials have been widely used in adsorption, heterogeneous catalytic, photocatalytic, photovoltaic, solar energy conversion, and energy storage applications, etc. By the same token, their size- and shape-dependent physicochemical properties allow for size- and shape-dependent biological and environmental effects as well. In the recent years, many efforts have been made to design and/or modify titanate-based nanostructures in order to use them in chemical and biological sensor devices, drug delivery systems, or even cancer therapy. This Special Issue will attempt to cover the most recent story of the titanate-based nanostructures from the novel synthetic approaches based on their structural, compositional, and functional characterization, to their different applications (photo-, bio- and electrocatalytic applications, chemical and biological sensor devices, drug delivery systems, solar energy conversion, energy storage, etc.).

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.

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