Special Issue

Nano-TiO_2: Characterization and Application

Message from the Guest Editor

Nano-TiO2 is used as an excipient in the pharmaceutical industry, for sun cream production in the cosmetics industry, as a colorant in white plastics, and as a relatively cheap and nontoxic food pigment approved by the relevant European Union authorities for the safety of food additives. TiO2 NPs have several applications, including in photocatalytic disinfection and as photosensitizing agents in the treatment of cancer, as well as in photodynamic inactivation of antibiotic-resistant bacteria. Both TiO2 NPs and their composites, combinations or hybrids with other molecules have successfully been tested as photosensitizers in photodynamic therapy. I invite you to submit papers for publication including original research describing advances in nano-TiO2.

Guest Editor

Dr. Maria Violetta Brundo

Department of Biological, Geological and Environmental Sciences, University of Catania, Via Androne 81, 95124 Catania, Italy

Deadline for manuscript submissions

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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