



Hybrid Nanocomposites for Sustainable Development: Synthesis, Properties and Applications

Guest Editor:

Dr. Maria Grazia Musolino

Department of Civil, Energy,
Environmental and Materials
Engineering, Università degli
Studi Mediterranea di Reggio
Calabria, Reggio Calabria, Italy

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Message from the Guest Editor

Increasing energy demand and serious environmental issues, such as air pollution and global warming, are drastically threatening sustainable development. This has sparked intensive research on the development of sustainable, environmentally friendly technologies. The challenge is to obtain innovative materials to use in technologies for renewable energy and sustainable applications. In this context, hybrid nanocomposites are emerging as some of the most advanced next-generation systems for a large variety of possible applications, ranging from sensing and energy storage to heterogeneous, electro-, and photocatalysis.

This Special Issue of *Nanomaterials* will attempt to cover the current state-of-the-art in the field of hybrid nanocomposites, concerning their synthesis, properties, characterization, and applications in environmental processes and for energy conversion and storage





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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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