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Nanomaterials for Environmental Protection

Guest Editor:

Dr. Mª Nieves Piña Capó
Supramolecular Chemistry Group, Department of Chemistry, University of Balearic Islands, Palma de Mallorca, Balearic Islands, Spain

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Message from the Guest Editor

It is necessary to design and develop new adsorbents which are capable of effectively capturing and eliminating pollutants from the environment. Nanomaterials have proven to be an excellent platform upon which new captors can be built, since they have already proven useful both in the aqueous medium and in the gas phase. We predict that functionalized nanomaterials are, perhaps, the most appropriate tool for removing this great structural variety of contaminants. This Special Issue calls for the preparation, characterization and application of new materials for the capture of pollutants in all possible scenarios, in natural or working environments. In order to be competitive, and within the paradigm of the circular economy, the design and coordination should introduce the capacity to be recycled; that is, the controlled release of the pollutant and the subsequent recovery of the collector under mild conditions.

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Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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

Tel: +41 61 683 77 34
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nanomaterials@mdpi.com
𝕏@nano_mdpi