Special Issue

Nanomaterials and Nanocomposites Membranes for Water Purification and Assessment of Potential Ecotoxicity

Message from the Guest Editors

Water contamination is one of the most critical environmental issues and is a significant challenge for humanity. In Europe, an estimated 14,000 premature deaths are linked to water pollution, primarily due to pathogens and harmful chemicals. To address these deficiencies, developing advanced nanomaterials alongside nanocomposite membranes for water matrix decontamination is imperative. This Special Issue will focus on the following:

- The novel synthesis and application of nanomaterials and nanocomposite membranes in water matrix decontamination;
- Nanocomposite membranes for filtration, photocatalytic, adsorptive, and filtration applications;
- Multifunctional nanomaterials for water decontamination and disinfection;
- Nanomaterials' and nanocomposite membranes' reusability, recyclability, and second life assessments;
- Ecotoxicity;

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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

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