# Special Issue

# Advanced Functional Nanocomposites for Water Purification

## Message from the Guest Editor

Water contamination as result of human activities, such as industrialization, rapid population growth in some areas, and agricultural activities is an increasing global concern. Recently, functional nanocomposites open a new branch for effective water purification since nanocomposites exhibit high surface area due to their small particle size, and for hence an improved adsorption capacity. The different synthesis routes developed for these nanomaterials provides the opportunity to optimize their properties such hydrophilicity-hydrophobicity, porosity and surface charge, among others, resulting in advance materials with improved features. Additionally, nanocomposites combine the properties of all their constituents resulting in smart materials with better functionality, efficiency, stability or selectivity. This Special Issue of Nanomaterials "Advanced Functional Nanocomposites for Water Purification" aims to collect articles covering a broad range of subjects from nanocomposites synthesis to material characterization and adsorption studies. Full papers, communications, and reviews are all welcome.

## Guest Editor

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## Deadline for manuscript submissions

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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

Prof. Dr. Eugenia Valsami-Jones
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