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Sustainable Green Nanotechnologies for Innovative Purifications of Water

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on advances in semiconductor materials (powders, ceramics, glass ceramics, thin films) processing, characterization, and their multidisciplinary applications. Especially welcomed are papers with a focus on sustainable green nanotechnology, synthesis of semiconductor materials from plant extracts, various precursors, and doping agents (based on non-metals, transition metals) for the removal of (emerging) organic pollutants (e.g., pesticides, pharmaceuticals, dyes from ultrapure, drinking, surface, ground, and wastewaters). This includes the application of “reagent-free, waste-free” advanced oxidation processes (AOPs). Topics regarding individual, as well as additive and synergistic effects obtained by operating hybrid AOPs (including photocatalysis, subcritical water treatments, ultrasound, plasma-based AOP, (photo)-Fenton, catalytic ozonation) are also welcomed.

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Editor-in-Chief

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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.

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