Special Issue

Advances in Nanotechnology for Pollutant Degradation

Message from the Guest Editor

Adsorption and catalytic oxidation processes have emerged as a promising technology for water and wastewater treatment.
This Special Issue aims to advance the understanding and application of adsorption and catalytic oxidation processes by focusing on the following topics:
Development of adsorbent;
Catalytic materials and mechanistic studies;
Large-scale or potential large-scale deployment for water/wastewater/groudwatwer/soil treatment;
Advanced catalytic systems, including ozone-, UV-, H2O2-, Cl2-, and persulfate-based oxidation; membrane-assisted catalysis; electrocatalysis; and photocatalysis.
We invite submissions of original research articles, comprehensive reviews, and short communications on these topics.

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

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