Special Issue

Nanoparticles for Environmental Applications

Message from the Guest Editor

The rapid development of nanotechnology has opened up new frontiers in addressing environmental challenges. Engineered nanoparticles offer promising capabilities in pollution control, water purification, the remediation of contaminated sites, and potential applications in electromagnetic interference (EMI) shielding systems. This Special Issue will showcase high-quality original research articles and reviews that highlight recent advances in the synthesis, characterization, and application of nanoparticles in solving environmental issues. An emphasis will be placed on interdisciplinary approaches that link material science, environmental engineering, chemistry, and toxicology. For this Special Issue, we welcome original research articles and reviews. Research areas may include the following:

- The synthesis of nanoparticles for environmental remediation;
- Nanoparticles in wastewater and air treatment;
- Ecotoxicological assessments of nanoparticles;
- Nanoparticles for EMI shielding applications;
- Nano-enabled sensors for environmental monitoring;
- Green synthesis and lifecycle analysis in nanomaterials.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).