Special Issue

New Trends in Membrane Technologies for Removal of Hazardous Pollutants

Message from the Guest Editor

This Special Issue seeks to assemble pioneering research and comprehensive reviews on advanced membrane-based approaches for pollutant removal in both aqueous and gaseous environments. We welcome original research articles, reviews, and case studies covering the following topics:

- **Advanced Membrane Material Development:** Design and fabrication of novel nanostructured, functionalized, and sustainable membrane materials (e.g., graphene-based, MOFs, stimuli-responsive polymers) for enhanced pollutant removal in both water and air applications.
- **Innovative Membrane Processes for Pollutant Removal:** Emerging water/wastewater treatment processes (e.g., forward osmosis, membrane distillation, hybrid systems) and air purification technologies (e.g., gas separation, VOC removal, PM filtration) targeting specific hazardous contaminants.
- **Targeted Hazardous Pollutant Remediation:** Specialized approaches for removing heavy metals, emerging contaminants (PFASs, pharmaceuticals), and microplastics from water, as well as VOCs, particulate matter, and industrial gases from air, with an emphasis on efficiency, sustainability, and scalability.

Guest Editor

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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open accessjournal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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