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Environmental Applications of Membrane Technology

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Message from the Guest Editors

Membrane technology is increasingly used in many environmental applications, ranging from drinking water production, wastewater treatment, pollution control, gas separation to energy production and resource recovery. Microfiltration (MF), ultrafiltration (UF), and nanofiltration (NF) are widely used in water treatment facilities, and membrane bioreactors (MBR) set a golden standard for wastewater treatment. In recent decades, alternative desalination methods (e.g., membrane distillation (MD), forward osmosis (FO), capacitive deionization (CDI)) have started to show some competitive niches. At the same time, the emergence of new desalination materials, such as graphene oxide and aquaporins, are preparing to revolutionize the desalination sector. Membrane processes are also playing an ever-increasing role in energy production, CO_2 capture, pollution reduction, resource recovery, etc. This Special Issue invites contributions that address the latests developments of membrane technology and its environmental applications. Both original research papers and comprehensive reviews are welcome.

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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