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Membrane-Based Technologies and Sustainable Wastewater Treatment

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Deadline for manuscript submissions:
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Message from the Guest Editors

With the rapid development of global industry, the environmental pollution caused by wastewater discharge has raised extensive concerns. Moreover, increasingly strict discharge standards have prompted the research and development of novel wastewater treatment technologies. Meanwhile, concerning the severe issue of freshwater resource shortages, while dealing with sewage, water recovery has also become a new demand for wastewater-treatment technology.

As an alternative to traditional wastewater-treatment methods, membrane-based wastewater treatment processes have attracted much attention due to their inherent simplicity, scalable modular design, easy maintenance, and excellent separation efficiency. In recent years, membrane distillation technology has been widely explored in wastewater treatment, such as dyeing wastewater treatment, oil–water separation, and recovery of valuable components in wastewater, seawater, and brine. Compared with other membrane-based treatment methods, thermally driven membrane distillation exhibits extremely high pollutant removal rates.

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Message from the Editor-in-Chief

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