

Novel Membrane Processes for Water Treatment

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Message from the Guest Editors

Dear Colleagues,

This [Special Issue](#) is devoted to evaluating the viability of applying novel membrane processes to water treatment. Examples of innovative membrane processes include, but are not limited to, membrane contactors (membrane distillation, osmotic membrane distillation, etc.) and forward osmosis, among others. These technologies have been developed recently and are of growing interest in water production and wastewater treatment. Indeed, research papers on novel membrane technologies are growing exponentially due to their enormous potential: an increasing tendency has been observed over the past five years.

New emergent membrane processes have promising advantages compared to conventional membrane technologies, such as low energy requirements as they operate without pressure, low chemical consumption as membrane fouling is low, and the simultaneous production of a high-quality water stream and another highly concentrated stream of invaluable products. Recent studies have reported very high separation efficiencies in different applications. However, further studies are needed to cope with detected problems in the complex characteristics of the treated streams.



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Message from the Editor-in-Chief

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