Special Issue

Sustainable Water Treatment and Desalination with Membrane Distillation Technology

Message from the Guest Editors

This Special Issue on "Sustainable Water Treatment and Desalination with Membrane Distillation Technology" seeks high-quality and novel work focusing on the latest advances in membrane distillation technology for sustainable water treatment and desalination applications. Topics of interest include, but are not limited to:

- The fabrication of novel membranes and advanced MD module engineering design in different configurations.
- Creating hybrid MD systems by integration with conventional desalination technologies, for brine management and salt recovery purposes.
- Prospects for an MD water desalination process with zero liquid discharge (ZLD).
- The theoretical modelling and simulation of complex MD systems in different configurations.
- Small-scale, stand-alone MD systems integrated with renewable energy sources for applications in remote areas.
- Long-term MD system performance at large scales, integrated with sustainable energy sources or industrial waste heat.
- MD membrane fouling and scaling issues: control and modelling.
- The costs of water production with MD systems at small and large scales.

Guest Editors

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Editor-in-Chief

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