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Sustainable Water Treatment and Desalination with Membrane Distillation Technology

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Deadline for manuscript submissions: closed (28 February 2022)



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.







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Message from the Editor-in-Chief

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