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Membranes for Water Treatment and Desalination

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Fresh water scarcity has become a critical global challenge. processes such as reverse nanofiltration, ultrafiltration, microfiltration and forward osmosis have emerged as a promising alternative to conventional water treatment processes. Several water stressed countries rely on membrane-based desalination supplying drinking water to its consumers. Nevertheless, there are many aspects in membrane-based processes which pose a challenge. These include tuning of membrane properties for selective rejection, optimizing membrane modules for energy efficiency, membrane fouling prevention, and modifying membrane properties to meet specific requirements for industrial wastewater treatment. In addition, the introduction of novel membrane materials based on carbon nanotubes and graphene have further revolutionized this field, while several others, such as zeolite-based materials, have shown prospects of removing 100% of salt from seawater, theoretically.

We welcome manuscripts based specifically on this topic, yet which cover at the same time a broad spectrum from membrane materials to membrane systems.











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Editor-in-Chief

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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