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Adsorption Desalination and Cooling Systems: Advances in Design, Modeling and Performance

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Message from the Guest Editors

The increase in energy efficiency, reducing energy demand, and greenhouse gas emissions and the use of waste, renewable and recycled heat from low-temperature sources are significant challenges today and are set into the idea of 4th Generation District Heating (4GDH). On the other hand, currently, about one billion people around the world are suffering from water scarcity, and another three billion are approaching this situation. Only 2.5% of the total is freshwater, of which around 70% is not available, and only 0.4% constitutes the most valuable part of freshwater. Adsorption cooling technology is one of the most effective ways of cooling and potable water production from renewable and waste heat of the near ambient temperature, including sewage water, solar heat, and underground resources. This Special Issue aims to bring together research on advances in design, modeling, and performance of adsorption desalination and cooling systems. Original research articles, as well as review articles, are welcomed.

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Message from the Editor-in-Chief

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