

## Special Issue

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

### 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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### Guest Editors

Prof. Dr. Jaroslaw Krzywanski  
Prof. Dr. Norbert Skoczylas  
Dr. Marcin Sosnowski

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### Deadline for manuscript submissions

closed (31 March 2022)



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
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