Absorption Heat Pumps for Heating and Cooling: Modeling, Simulation, Design, Optimization, and Experiments

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Message from the Guest Editors

Absorption systems have a great deal of potential in terms of boosting residual energy and reducing the demand for non-renewable energy sources. Recent studies of single and advanced absorption cycles (closed and open systems, new configurations and heat exchangers, coupling, activation, application, etc.) have significantly reinforced this research field. This Special Issue focused on absorption heat pumps for heating and cooling seeks to publish new knowledge on modeling, simulation, design, optimization, and experiments designed to understand parts of or whole systems, with the final aim being their real-world application.

The topics of interest include, but are not limited to, the following areas:

- Absorption heat pumps;
- Mass and heat transfer;
- Solar thermal systems;
- Optimization;
- Artificial intelligence;
- Machine learning;
- Passive and dynamics heat exchangers;
- Absorption heat transformers;
- Automatization and control;
- Solar heat storage systems;
- Application of absorption systems;
- Desorption and condensation;
- Evaporation and absorption;
- Combined cycles;
- Hybrid cycles.

Special Issue

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Message from the Editor-in-Chief

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