Special Issue

Adsorptive Systems for Heat Transformation and Heat Storage Applications

Message from the Guest Editors

The are inviting submissions for a Special Issue of *Energies* on the subject “Adsorptive Systems for Heat Transformation and Heat Storage Applications". Adsorptive heat transformation and storage (AHTS) is gaining more and more attention in the scientific community as an emerging, environmentally benign technology utilizing renewable thermal energy sources for heating and cooling. The AHTS is expected to play a crucial role in meeting the increasing heating/cooling demands of the growing population. This Issue aims to give a comprehensive insight into the state-of-the-art in the field of AHTS science and technology with a special focus on the following aspects:

- The thermodynamics and kinetics of AHTS cycles;
- Novel working pairs;
- Advanced cycles;
- Adsorption equilibrium and dynamics;
- Adsorbent bed configurations;
- Heat/mass transfer in adsorber/heat exchanger and evaporator/condenser units;
- COP and SCP enhancement;
- Compact adsorbent beds preparation;
- Testing the feasibility of AHTS cycles;
- Other related topics.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2020)

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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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