Special Issue

Modelling, Optimization and Control of Carbon Capture for Power Plants

Message from the Guest Editors

This Special Issue will feature the most recent developments and state-of-the-art methods for the optimal operation of power plant–carbon capture units. The targeted readers include both academic researchers and industrial practitioners. The topics of interest include but are not limited to the following areas:

- The first-principle modelling and systematic identification of carbon capture systems for power plants;
- The optimization of the carbon capture process for higher efficiency and operational flexibility;
- The advanced control of carbon capture systems for power plants;
- The modelling, optimization and control of biomass-fired power plants integrated with carbon capture;
- The state monitoring and fault diagnosis of carbon capture plants;
- Artificial intelligence in carbon capture;
- Projects demonstrating carbon capture for power plants.

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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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