Special Issue

Advances in Low Carbon and Artificial Intelligence in Power Energy System

Message from the Guest Editors

In terms of the uncertainty of renewable energy, it is necessary to operate power energy systems under variable conditions. In order to achieve the objectives of low carbon use, economy, and speediness, artificial intelligence algorithms are introduced in the optimal operation of power energy systems. This Special Issue aims to present the most recent advances related to the theory, design, modelling, numerical simulation, application, optimization, dynamic characteristics, performance assessment, and control of low-carbon and artificial intelligence technologies in power energy systems. We invite you to bring us your contributions on topics including, but not limited to, the following:

- Advanced power energy systems;
- Renewable energy technologies;
- Carbon neutrality;
- Artificial intelligence;
- Optimization algorithms;
- Operating strategy on power energy systems;
- Dynamic modelling;
- Performance assessment;
- Supercritical CO2 cycle;
- Numerical modelling;

Guest Editors

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Deadline for manuscript submissions

closed (1 August 2024)

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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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