

## Special Issue

# Advanced Techniques for Thermoelectric Generator and Fuel Cell System

### Message from the Guest Editors

Thermoelectrics, which converts heat into electricity and vice versa by utilising the Seebeck effect and Peltier effect, could play an important role in global sustainable energy solutions. Currently, studies focus on the thermoelectric structure, figure of merit of thermoelectric materials, and systems designed to enhance devices' performances. Furthermore, to address the requirements of shorter product development cycles and reduced development costs, it is necessary to rely on advanced simulation models in the development process of fuel cells, their components, and fuel-cell-based systems. This Special Issue will deal with novel optimization and control techniques for Thermoelectric Generator and Fuel Cell Systems. This Special Issue will focus on, but is not limited to, the following topics:

- Promising thermoelectric materials;
- Technical studies of thermoelectric generator and cooler;
- Multistage structure optimization;
- Hybrid thermoelectric system and all types of fuel cells;
- Fuel-cell-based systems and high efficiency application;
- Research/technological challenges and advanced model parametrization tools.

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### Guest Editors

Dr. Xun Liu

Dr. Ben Chen

Dr. Yulong Zhao

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### Deadline for manuscript submissions

closed (15 November 2023)



## 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

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