Special Issue

Carnot Battery Technologies

Message from the Guest Editors

This special issue inquires about the submission of articles that will showcase the advancement of state-of-the-art Carnot batteries. Its topics and aims are intentionally kept broad to gather new solutions and ideas to meet techno-economic requirements for large-scale electricity storage demand, but also to underscore technical, economic, and social challenges surrounding these technologies. Submissions are encouraged but are not limited to the following general areas:

- Novel concepts and designs of Carnot batteries;
- Innovative solutions for the improvement of the existing Carnot batteries:
- Integration of renewable-based electricity to Carnot batteries;
- Techno-economic studies on large-scale and costefficient Carnot batteries;
- Energy and exergy efficiency analysis of Carnot batteries:
- Transient thermal performance of the heat engine and/or heat pump cycle;
- Carnot batteries-based trigeneration (electricity, heat, and cold) systems.

Guest Editors

Dr. Andrey Gunawan

Prof. Dr. Abhishek Singh

Prof. Dr. Ahmad Arabkoohsar

Deadline for manuscript submissions

closed (1 May 2022)



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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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