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## CO<sub>2</sub> Based Energy Harvesting and Storage Systems

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Deadline for manuscript submissions:

**closed (30 April 2021)**

### Message from the Guest Editors

Dear Colleagues,

The issue of carbon emission reduction by many industrial processes and human activities leads to the necessity to cope with CO<sub>2</sub> release, by introducing new processes focused on good practice through reusing and recycling. Among the possibilities, CO<sub>2</sub> can be used as a reactant for power production in many advanced energy systems or as a storage and operating medium for waste heat recovery. This Special Issue will focus on the topics of interest for publication include, but are not limited to:

- Advanced thermodynamic cycles;
- Supercritical CO<sub>2</sub> cycles;
- Power-to-gas and gas-to-power storage systems;
- Fuel cells and electrolysis with CO<sub>2</sub>;
- New integrations of CO<sub>2</sub> capture and energy systems;
- Combined heat and power generation with CO<sub>2</sub>;
- Energy networks with CO<sub>2</sub>;
- Biomethane and synthetic methane plants.



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**Special** Issue



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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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