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Technologies for Carbon Emission Mitigation

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Message from the Guest Editors

Recently, interest in reducing carbon dioxide (CO₂) emissions has increased and regulations have intensified. Tremendous efforts are made to reduce CO₂ emissions via fundamental and applied research. CO₂ emissions can be mitigated by improving the thermal efficiency of internal combustion engines. Innovation of thermodynamic cycles, for example, cogeneration, organic Rankine, and combined cycle with waste heat recovery, leads to higher thermal efficiency. In addition, technologies for sequestering or converting are emerging to suppress CO₂ accumulation in the atmosphere. While reducing fossil fuel dependency, renewable energy technologies also offer an indirect technical solution to CO₂ emissions.

The contribution of these technologies to CO₂ mitigation is definitely remarkable, but more effort still needs to be expended until the concentration of CO₂ in the atmosphere is sustainable. With such a goal in mind, this Special Issue aims to collect original research or review articles on various technologies conducive to reducing greenhouse gas emissions. Any research topic contributing to greenhouse gas mitigation will be considered.



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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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