

## Special Issue

# Carbon Dioxide Storage in Hydrate Reservoirs

### Message from the Guest Editor

This Special Issue "Carbon Dioxide Storage in Hydrate Reservoirs" seeks to contribute to this discussion through enhanced scientific and multidiscipline studies in this research area. Topics of interest for publication include but are not limited to:

- Interactions between the injected CO<sub>2</sub> and the initial natural gas hydrate and the CO<sub>2</sub> enclathration process on a molecular level;
- Interactions between sediments, microorganisms, and the injected CO<sub>2</sub>, and their influence on the resulting hydrate phase;
- Multiphase behavior of pore water, injected CO<sub>2</sub>, and the hydrate phase;
- CO<sub>2</sub> hydrate formation process and kinetics under conditions close to nature;
- Evaluation of the economic feasibility of the usage of CO<sub>2</sub> as a method for CH<sub>4</sub> production from natural gas hydrate reservoirs;
- Technical challenges and developments related to the storage of CO<sub>2</sub> in natural gas hydrate reservoirs;
- Predictions of the long-term behavior of injected CO<sub>2</sub> in hydrates and sustainability of CO<sub>2</sub> storage;
- Assessment of potential environmental risks.

### Guest Editor

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### Deadline for manuscript submissions

closed (25 February 2021)



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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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