Special Issue

Gas Hydrates: A Future Clean Energy Resource

Message from the Guest Editors

Gas hydrates are garnering widespread attention from the scientific community, particularly due to their potential to be used as an alternative energy source and also because they are an alternative for the final disposal of carbon dioxide into deep oceans. The importance of gas hydrates can also be witnessed with the increasing discussions centered around them in several organizational forums and the establishment of international congresses exclusively focused on the exploration and use of gas hydrates such as the upcoming European Conference on Gas Hydrates (Italy 2024). This Special Issue aims to offer a platform to share the recent advancements on gas hydrates research, by welcoming original and innovative experimental studies, as well as critical reviews.

- Strategies for direct recovery of methane from natural reservoirs;
- Recovery of methane via replacement processes, with pure carbon dioxide and/or with the addition of further guest species, as nitrogen, hydrogen, propane and others;
- Production of hydrates for the final disposal of carbon dioxide;
- Validation of analytical models, aimed at broadening the knowledge on the exploitation of natural reservoirs;

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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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