Special Issue

Energy Resource Potential of Gas Hydrates

Message from the Guest Editors

Natural gas hydrates mostly located on the sea bed constitute the largest reservoir of natural gas on the planet and represent an important solution for the transition from the actual energy scenario to a renewable one. Methane, contained in hydrates' crystalline structure, can be replaced by carbon dioxide, and therefore equivalent to renewable energy sources. Authors are invited to submit papers in the field of gas hydrates as an energy resource by focusing on the following topics:

- Chemical and physical aspects for a deeper comprehension of the kinetics and thermodynamics of methane delivery and CO2 hydrate formation and stability
- Geological aspects, in particular the mechanical properties of CO2 and CH4 hydrate sediments as well as the mechanical properties of gas hydrates during the CH4-CO2 exchange process; prospection and detection aspects.
- Engineering aspects related to: natural gas extraction, CO2 injection and replacement process, drilling problems.
- Environmental sustainability evaluations.
- Economic and political aspects of gas hydrate exploitation; effects on energy scenarios and markets.

Thank you very much!

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2020)



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About the Journal

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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