Special Issue

Hydrate Exchange in Porous Media for Carbon-Neutral Energy Production

Message from the Guest Editors

In recent years, there has been significant effort to advance our understanding of guest exchange in natural gas hydrate systems, ranging from laboratory experiments to field measurements. At the small scale, laboratory research is revealing the fundamental processes that govern hydrate exchange, whilst large scale field measurements and geotechnical models are characterising the nature of hydrate reserves and their viability for energy production and carbon sequestration. Research into the practical limitations of hydrate exchange is increasingly important, in order to address geomechanical and environmental constraints to hydrate production. This Special Issue is open to submissions from all aspects of hydrate exchange research. As a multi-disciplinary topic sitting at the nexus of engineering, geology, physics, and chemistry, we hope to bring together the most recent advances in all areas to deliver a comprehensive understanding of hydrate exchange research and to identify the current challenges facing this promising method of carbon neutral energy production.

Guest Editors

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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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