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Analysis and Experimental Study on Natural Gas Hydrate Exploitation Processes

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Message from the Guest Editors

Natural gas hydrates are considered a huge reservoir of methane, with the amount of stored organic carbon twice the amount contained in all currently recoverable worldwide conventional hydrocarbon resources.

Research outcomes from theoretical studies, molecular modeling, and experimental works on the recovery of gas from hydrate in laboratory settings have revealed the possibility of energy production from hydrate resources. Traditional production methods include depressurization, thermal stimulation, in-situ combustion, and chemical injection. In addition, a novel technique based on carbon dioxide injection into methane hydrate, has been proposed to recover methane and simultaneously store carbon dioxide, enhancing the idea of a carbon neutral fuel source.

This Special Issue “Analysis and Experimental Study on Natural Gas Hydrate Exploitation Processes” will collect new outcomes on the above-mentioned issues and offer the scientific community an opportunity to illustrate their research. Therefore, I invite you to submit original research and review articles on this topic.

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Message from the Editor-in-Chief

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