Special Issue

Phase Transition and Heat-Mass Transfer of Gas Hydrate in Sediment

Message from the Guest Editors

The NGH reservoir is a complex multi-phase and multi-component system composed of natural gas, water, hydrates, ice, sand, etc. The fundamental scientific issues involved in NGH exploitation not only include phase transition, the dynamic process of gas-liquid-solid multiphase seepage, and heat and mass transfer caused by NGH decomposition. These processes interact and restrict each other, which leads to the difficulty of NGH exploitation technology. Further progress on this front call for new exploitation techniques based on heat and mass transfer theory, as well as for an improved understanding of the meaning of entropy in complex systems. Contributions addressing any of these issues are very welcome.

Guest Editors

Dr. Xiaosen Li

Key Laboratory of Gas Hydrate, Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou 510641, China

Dr. Yi Wang

Key Laboratory of Gas Hydrate, Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou 510641, China

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Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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