

Special Issue

Process System Engineering of Gas Hydrate: Multiple Processes, Scales, Physics Fields and Senarios

Message from the Guest Editors

This Special Issue aims to introduce the most innovative studies covering physical, chemical, geological, geophysical, geomechanical, environmental, and economic aspects of gas hydrates and hydrate-bearing sediments. Topics of interest include, but are not limited to, the following:

- The modelling and prediction of dynamic processes of hydrate formation, accumulation, and decomposition based on numerical simulations, experiments, or field trials;
- Hydrate petro/rock physics studies for reservoir evaluation, such as hydrate saturation, permeability, etc.;
- The development of techniques for reservoir monitoring during gas production from hydrates;
- The energy recovery process from marine gas hydrates;
- Greenhouse gas sequestration and storage process by hydrate formation;
- Vertical methane leakage through the sediments and at the seabed;
- Geological controls of high saturation gas hydrate and underneath FGZ;
- Seabed methane seepage due to hydrate dissociation and related environmental effects;
- The gas hydrate flow process in long-distance oil–gas transportation pipelines.

Guest Editors

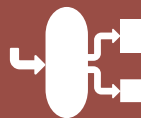
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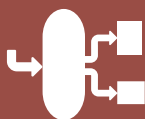


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