



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

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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.





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Message from the Editor-in-Chief

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