

Special Issue

Towards Environmental Sustainability and Clean Energy: Multi-Scale Exploration of Gas Hydrate

Message from the Guest Editors

Natural gas hydrates are considered as a clean energy resource and can effectively mitigate environmental pollution while guaranteeing energy security. Although gas hydrate reserves are abundant and some achievements have been made in the pilot production of gas hydrate all over the world, but there are still many problems to be overcome and solved, and the mechanism problems need to be explored and analysed before the complete successful commercial exploitation. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following: The analysis of mechanism and influencing factors of the formation and decomposition of gas hydrate at molecular scale, the petrophysics properties response mechanism (resistivity, acoustic velocity, mechanics, permeability, and nuclear magnetic resonance) of gas hydrates at plunger scale, the methods of well logging identification and parameters calculation for gas hydrates, seismic identification of gas hydrate reservoirs and estimation of reserves, gas hydrate production technology and methods, geological hazards and risks caused by gas hydrate.

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