

There are six main sets of hydrocarbon source strata in the Sichuan Basin. Among them, the Ordovician Wufeng Formation--Silurian Longmaxi Formation marine shale ...

The comprehensive evaluation concludes that the Carboniferous gas reservoir possesses favorable geological conditions, making it suitable for conversion into a gas storage ...

However, the above-mentioned studies focused on the static reservoir's total water storage, which is generally termed as the actual water storage at a given time within the ...

Deep shale gas reservoir (3,500 ~ 4,500 m) of Wufeng-Longmaxi Formation in southern Sichuan Basin in China has great potential for exploration and development, with resource of 16.31 × 10¹² m³; ...

Based on observation of the outcrops and cores of the Late Ordovician to the Early Silurian Wufeng-Longmaxi shale, developed in the deep water shelf environment, in the ...

Carbon neutrality has become the long-term development strategy of many countries worldwide, and the widespread implementation of CCUS (carbon capture, utilization, and storage) is critical for achieving this ...

In this work, a novel thermal-hydraulic-mechanical (THM) coupling model is developed, where the real geological parameters of the reservoir properties are embedded. Accordingly, nine schemes of CO₂ ...

Although the LMBs demonstrate great potential in energy storage, at the current stage the wide application of LMBs is discouraged by the high activity of Li, significant volume ...

This study leverages numerical simulations for an in-depth investigation of High Temperature - Reservoir Thermal Energy Storage (HT-RTES) systems, focusing on pressure and ...

An artificial intelligence hardware approach that uses the adaptive reservoir computation of biological neural networks in a brain organoid can perform tasks such as ...

The application of solid polymer electrolytes for Li metal batteries (LMBs) is hindered by the Li/electrolyte interface instability and poor mechanical strength. Herein, a ...

In this work, a novel thermal-hydraulic-mechanical (THM) coupling model is developed, where the real geological parameters of the reservoir properties are embedded. ...

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We systematically summarized the geological characteristics of deep shale gas reservoir of Wufeng-Longmaxi Formation, and discussed the facing challenges and proposed ...

Biogenic quartz in the Upper Ordovician Wufeng Formation to Lower Silurian Longmaxi Formation (Wufeng- Longmaxi) shale layers in the Sichuan Basin and its periphery ...

CO₂ miscible flooding is a promising technique for enhancing tight oil development and achieving carbon capture, utilization, and storage. This work h...

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