Detrital zircon U-Pb geochronology was determined by means of laser ablation inductively coupled plasma mass spectrometry to better understand the provenance and to identify temporal and spatial variations in sediment sources of the Yingdong slope sediments in the Yinggehai-Song Hong Basin.  

This paper investigates well-log responses to overpressure, predicts the pore pressure in the Jurassic formation of the central Junggar Basin, and reconstructs the evolution history of overpressure. The primary mechanism for overpressure is hydrocarbon generation.

A subaqueous clinoform system from the northeast Exmouth Plateau, Australia, is a shelf-slope-basin clinoformal component of a Jurassic fluviodeltaic system. A northwest-accretionary shelf margin clinoform system was formed due to long-term stable or falling sea level during the Jurassic.

The purpose of this study is to produce a complete set of thermal property data for estimating formation temperature and for thermal structure analysis of the Tarim Basin, China. The effects of anomalous thermal properties on surface heat flow and formation temperature should be considered during basin modeling.

The charging histories and directions of Carboniferous oils in the eastern Chepaizi uplift, Junggar Basin, were investigated by integrating oil geochemistry, fluid inclusions, basin modeling, and geological data. One charging episode occurred in the Paleogene and one in the Neogene.

The aim of this study is to summarize the effect of tectonic evolution on the deposition of distinctive facies associations and to establish the coal accumulation patterns in different tectonic evolution stages of the Erlian Basin, northeastern China. Seven facies associations were identified.

Seismic surveys often record continuously, producing “excess” data that can be used to produce new three-dimensional seismic reflection imagery. This extensive and growing volume of deep crustal information has the potential to transform our understanding of continental structure and tectonics.

A newly discovered Ordovician giant superdeep oil accumulation is buried between 7,000 and 8,000 m in the southern part of the Halahatang oil field in the Tarim Basin. The newly discovered superdeep accumulation is among the deepest black single-phase oil accumulations worldwide.

Hydrocarbons generally occur in Mississippi Valley-type lead-zinc deposits. Ores are emplaced in the same temperature range as hydrocarbon maturation and migration, and the deposits often occur in proximity to metal-rich black shales. This paper examines this relationship.
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