

Danish Offshore Technology Centre Technology Conference 2024

Sealing behavior of caprock during impure CO₂ storage

Hamed M. Kermani, Hamid Nick

The capture CO₂ normally contains impurities. The purification of the CO₂ is costly and surface handling of the impurities is problematic. In this study, we investigate the co-storage of reactive impurities such as H₂S, NO₂, and SO₂ with CO₂. We examine the relevant gas, brine, and rock interactions in the caprock domain and their effect on the sealing condition.



AARHUS UNIVERSITY

