

2013年5月第三届中德国际会议专刊“二氧化碳地下封存及能源地下储存”

侯正猛

发表于《Acta Geotechnica》2014年01期, 引自<http://link.springer.com/article/10.1007/s11440-013-0243-6>

摘 要

温室气体排放, 能源安全和可持续发展是当今人类共同面临的三大挑战。中德“二氧化碳地下封存和能源地下储存”合作小组的科学家合作出版了这期专刊, 尝试阐明在以减少温室气体排放为目的的二氧化碳地质封存研究的最新进展, 包括监测二氧化碳地下迁移和地表渗漏, 地下水水质及盖层的完整性等。专刊的另一主题是能源地下储存, 因为它是保障能源安全和大规模可再生清洁能源稳定供应的一项关键技术。

Abstract

Greenhouse gas emissions, energy security and sustainability are three of the greatest contemporary global challenges to mankind today. The Sino-German Group of scientists have composed a special issue, which is a collection of diverse quality scientific works, that will try to elucidate the current developments in CO₂ geologic sequestration research to reduce greenhouse emission including measures to monitor surface leakage, groundwater quality and the integrity of caprock, while ensuring a sufficient supply of clean energy.

其他相关研究

[Numerical simulation of carbon dioxide injection for enhanced gas recovery \(CO₂-EGR\) in Altmark natural gas field](#), 《Acta Geotechnica》2014年01期

[Numerical investigation of a low-efficient hydraulic fracturing operation in a tight gas reservoir in the North German Basin](#), 《Journal of Petroleum Science and Engineering》2014年08期

[Simulation of CO₂ plume movement in multilayered saline formations through multilayer injection technology in the Ordos Basin, China](#), 《Environmental Earth Sciences》2014年10期

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