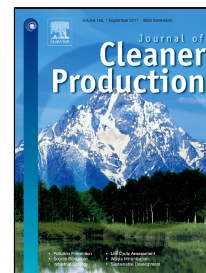


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Assessment and regulation of urban crude oil supply security: A network perspective

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1    Assessment and regulation of urban crude oil supply  
2    security: A network perspective

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9

10    **ABSTRACT**

11    A stable energy supply is essential to support urban socioeconomic activities and to  
12    ensure urban sustainable development. A quantitative systematic method is necessary to  
13    evaluate and improve the security level of urban energy supply. Ecological network  
14    analysis (ENA) is thus applied as a useful general analysis tool to systematically  
15    simulate, evaluate, and compare energy supply security in different cities. Based on the  
16    established ENA model, we evaluated and compared the crude oil supply security for  
17    Beijing, Shanghai, and Tianjin from 1997–2012, via sustainability, stability, and structure  
18    analyses. The results indicate that the overall levels of crude oil supply security for the  
19    three cities showed similar features and increase trends during the study period, whereas

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