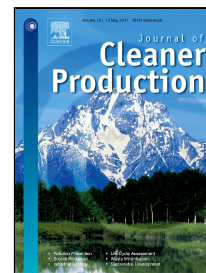


# Accepted Manuscript

Balancing GHG mitigation and food security through agricultural recycling systems: Case studies in the North China Plain

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PII: S0959-6526(17)30861-2  
DOI: 10.1016/j.jclepro.2017.04.136  
Reference: JCLP 9500  
To appear in: *Journal of Cleaner Production*  
  
Received Date: 20 January 2017  
Revised Date: 14 April 2017  
Accepted Date: 22 April 2017

Please cite this article as: Zhejin Li, Peng Sui, Xiaolei Yang, Hongcui Dai, Xiaolong Wang, Pan Long, Lingling Yan, Yuanquan Chen, Balancing GHG mitigation and food security through agricultural recycling systems: Case studies in the North China Plain, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.04.136

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**HIGHLIGHTS**

- Net GHG emissions and grain yields of different recycling systems were evaluated
- Both GHG emissions and carbon sequestrations were taken into consideration
- Recycling systems reduced more GHG emissions than non-recycling systems
- Recycling systems increased crop yield through organic wastes reused
- Recycling systems help China address climate change and ensure food security

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