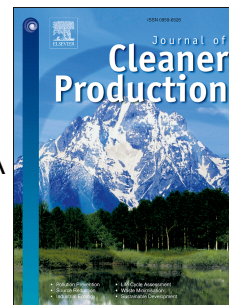


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Pinch analysis of GHG mitigation strategies for municipal solid waste management: A case study on Qingdao City

Xiaoping Jia, Siqi Wang, Zhiwei Li, Fang Wang, Raymond R. Tan, Yu Qian



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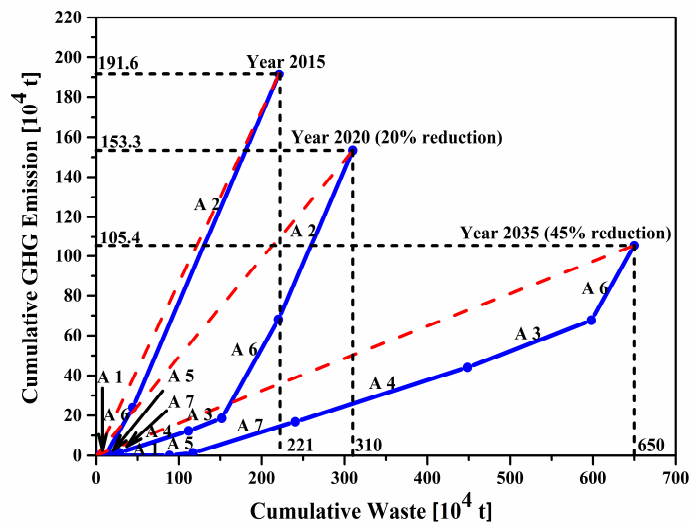
1 **Pinch Analysis of GHG Mitigation Strategies for Municipal Solid**
 2 **Waste Management: A Case Study on Qingdao City**

3 Xiaoping Jia^a, Siqi Wang^a, Zhiwei Li^b, Fang Wang^{a*}, Raymond R. Tan^c, Yu Qian^d

4 **Highlights**

- 5 ● A hybrid method is presented for a carbon-constrained MSW management
 6 system.
 7 ● Life-cycle carbon emissions of waste treatment are calculated.
 8 ● Carbon Emission Pinch Analysis is used to identify waste management strategies.
 9 ● Four scenarios are considered for MSW management in Qingdao City.

10 **Graphical Abstract**



11

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