for biofuel production', *Renewable Energy*. Elsevier Ltd, 44, pp. 380–391. doi: 10.1016/j.renene.2012.02.006.
Zhang, J. *et al.* (2013) 'An integrated optimization model for switchgrass-based bioethanol supply chain', *Applied Energy*. Elsevier Ltd, 102, pp. 1205–1217. doi: 10.1016/j.apenergy.2012.06.054.
Zhang, Y. and Jiang, Y. (2017) 'Robust optimization on sustainable biodiesel supply chain produced from waste cooking oil under price uncertainty', *Waste Management*. Elsevier Ltd, 60, pp. 329–339. doi: 10.1016/j.wasman.2016.11.004.

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