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# Co-pyrolysis kinetics of sewage sludge and bagasse using multiple normal distributed activation energy model (M-DAEM)

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## Abstract

In this study, the kinetic models of bagasse, sewage sludge and their mixture were established by the multiple normal distributed activation energy model. Blending with sewage sludge, the initial temperature declined from 437K to 418K. The pyrolytic species could be divided into five categories, including analogous hemicelluloses Ⅰ, hemicelluloses Ⅱ, cellulose, lignin and bio-char. In these species, the average

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