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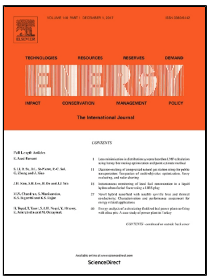

Analysis of catalytic pyrolysis of municipal solid waste and paper sludge using TG-FTIR, Py-GC/MS and DAEM (distributed activation energy model)

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Highlights

- Study on co-pyrolysis characteristics of municipal solid waste and paper sludge.
- The emission of pollutants (CO, SO_2, NO, HCl) and CO_2 were illustrated.
- The products of co-pyrolysis could be divided into three kinds.
- 30% ratio of paper sludge in the mixture with MgO might be the most suitable ratio.
- Gauss-Peak function was employed to describe activation energy distribution.