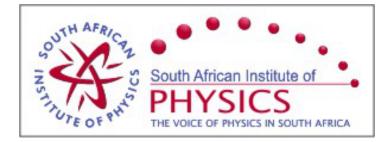
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Thermal characterization of various biomass materials for co-gasification with coal

Investigations into the gasification behavior during co-gasification of coal, biomass materials and coal/biomass blends prepared at different ratios (10:90, 20:80, 30:70, 40:60, and 50:50) have been conducted using a Thermogravimetric analysis (TGA) apparatus. Biomasses (pine wood, eucalyptus and cow dung) and coal (bituminous and lignite) were used. Devolatization behavior of different coals and biomasses under heating conditions used (20 oC/min and high N2 flow rate) typical of pyrolysis were investigated for kinetic parameter determination. Simulations were also done for material characterization.

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