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Effect of coal type on the flash pyrolysis of various coals

Wei-Chun Xu ... Akira Tomita

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Abstract

The effect of coal rank on the product distribution pattern was investigated in Ar at 1037 K with a Curie-point pyrolyser, using seventeen coals ranging from lignite to anthracite. The yields of inorganic gases, hydrocarbon gases, light hydrocarbon liquids and tar were determined and correlated with the structural parameters of the coals. The yields of CO₂ were found to have a linear relationship with the carboxylic group content of the coals. The amounts of light hydrocarbon gases correlated well with the aliphatic hydrocarbon content of the coals.



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