

## Thermal degradation of cellulose studied using solid state NMR

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### Abstract

In this paper solid state NMR methods have been used to study the degradation of cellulose in air at temperatures from 100 to 250 °C. The NMR studies included <sup>1</sup>H wide line spectroscopy and measurements of spin-lattice relaxation time (T<sub>1</sub>) and spin diffusion experiments. The effect of thermal treatment on the structural characteristics of cellulose was studied.