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## 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  $^{\circ}$ C. The NMR studies included  $^{1}$ H wide line spectroscopy and measurements of spin-lattice relaxation time ( $T_{1}$ ) and spin diffusion experiments. The effect of thermal treatment on the structural characteristics of cellulose was studied.