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Title: Detoxification Mechanism of Asbestos Materials by Microwave Treatment

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Research Highlights

The real and imaginary parts of the relative permittivity (ϵ' and ϵ'') of CaO are functions of temperature for a constant frequency.

CaO has a higher loss factor ($= \tan \delta$) than Mg₃Si₄O₁₂ at temperatures of 800 °C or higher.

Optical microscopic observation ($\times 400$) revealed that chrysotile fibers decreased in thickness as a result of microwave heating.

CaO is a key material of asbestos fiber degradations by microwave detoxification.

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