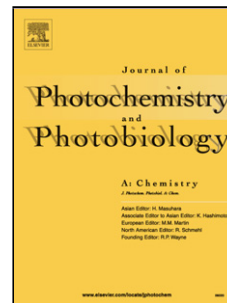


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## Temperature dependence of wood photodegradation. Part 2: Evaluation by Arrhenius law

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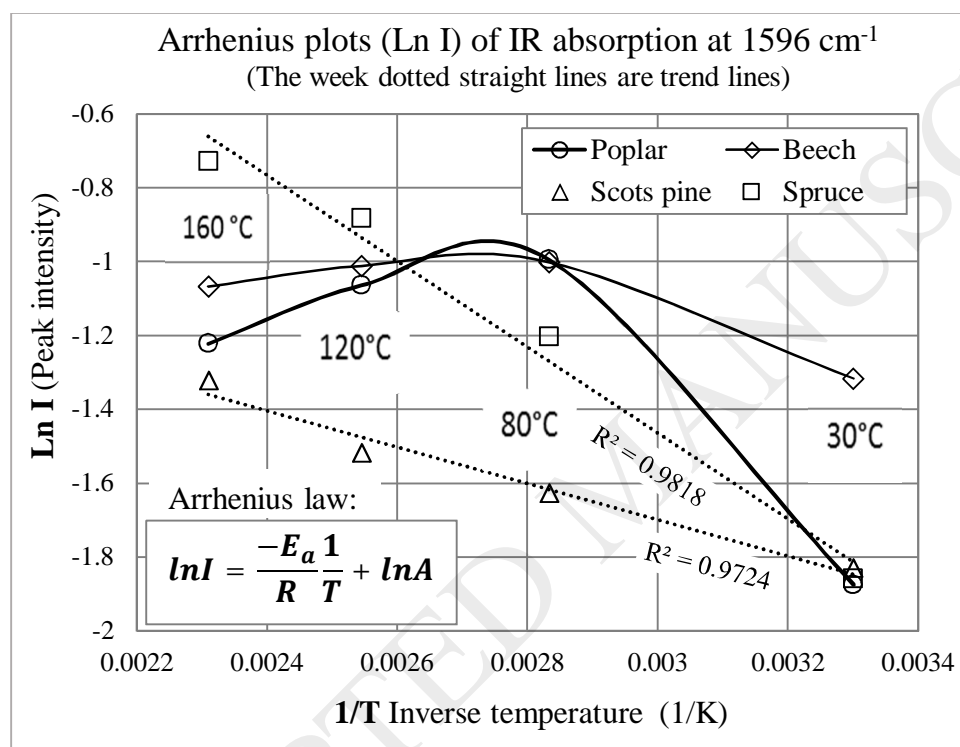
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Graphical abstract



### Highlights

- The photodegradation of wood was investigated at 30°C, 80°C, 120°C and 160°C.
- Chemical changes were detected by difference IR spectroscopy.
- The chemical changes were evaluated by the Arrhenius law.
- The photodegradation of guaiacyl lignin was found to have exponential temperature dependence.

### Abstract

The temperature dependence of photodegradation for wood was evaluated applying the Arrhenius law. Hardwood (beech, *Fagus sylvatica* L. and poplar, *Populus x euramericana* cv.

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