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Author: Bojan Stefanovic Katharina F. Pirker Thomas
Rosenau Antje Potthast



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Effects of tribochemical treatments on the integrity of cellulose

Bojan Stefanovic^a, Katharina F. Pirker^b, Thomas Rosenau^a, Antje Potthast^{a*}

^aChristian-Doppler-Laboratory, Department of Chemistry, University of Natural Resources and Life Sciences, Department of Chemistry, Division of Chemistry of Renewable Resources, Konrad-Lorenz-Straße 24, A-3430 Tulln an der Donau, Austria

E-mails: bojan.stefanovic@boku.ac.at

thomas.rosenau@boku.ac.at

antje.potthast@boku.ac.at

^bUniversity of Natural Resources and Life Sciences, Department of Chemistry, Division of Biochemistry, Muthgasse 18, A-1190 Wien

E-mail: katharina.pirker@boku.ac.at

*Corresponding Author:

Christian-Doppler-Laboratory, Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Konrad-Lorenz-Straße 24, A-3430 Tulln an der Donau, Austria

Tel: (+43) 1 / 47654-6454

Fax: (+43) 1 / 47654-6059

E-mail: antje.potthast@boku.ac.at

Highlights

- Cellulose during milling is randomly oxidized along the cellulose chains
- Cellulose degradation during milling is largely independent on lignin content
- Milling at 77K causes only little oxidation and less degradation
- Overall radical concentration during milling depends on cellulose composition
- Secondary radicals have been identified

Abstract

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