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Title: Modification of Pine Pulp during Oxygen

Delignification by Xylan Self-Assembly

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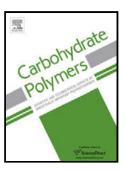
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I	Highlights

- Cold-alkali extracted xylan was purer than hot water extracted xylan
- Successful assembly of xylans onto pine fibers in oxygen delignification stage
- ToF-SIMS showed even distribution of the biopolymers on the fiber surfaces
- Resistance of the xylan-fiber assembly to pulp processing
- Improved pine pulp performance by birch xylan assembly in a fully bio-based system

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