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Title: Modification of Pine Pulp during Oxygen
Delignification by Xylan Self-Assembly

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1 Highlights

- 2 • Cold-alkali extracted xylan was purer than hot water extracted xylan
- 3 • Successful assembly of xylans onto pine fibers in oxygen delignification stage
- 4 • ToF-SIMS showed even distribution of the biopolymers on the fiber surfaces
- 5 • Resistance of the xylan-fiber assembly to pulp processing
- 6 • Improved pine pulp performance by birch xylan assembly in a fully bio-based system
- 7
- 8

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