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Title: Enzymatic hydrolysis of biomimetic bacterial cellulose–hemicellulose composites

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Highlights

- Composites of bacterial cellulose and wood hemicelluloses were hydrolysed by enzymes
- Presence of hemicelluloses, especially xylan, increased the hydrolysis of cellulose
- Small-angle x-ray scattering was used to follow the hydrolysis *in situ*
- The results demonstrated the important role of cellulose nanostructure

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