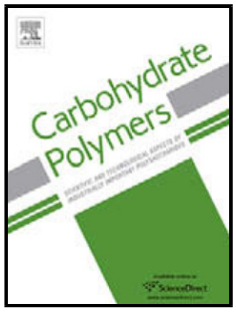

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Isolation and characterisation of microcrystalline cellulose and cellulose nanocrystals from coffee husk and comparative study with rice husk

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Highlights

- Purification of cellulose using alkali and bleaching treatments was effective.
- Notable microstructural changes at each stage of treatment are observed.
- Fibres and CNCs from rice and coffee husk have a high thermal stability.
- 1 wt% of cellulosic fibres or CNCs increased the elastic modulus of TPS films.

Abstract