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Title: Advances in modifying lignin structures for largely enhancing high-lignin biomass saccharification

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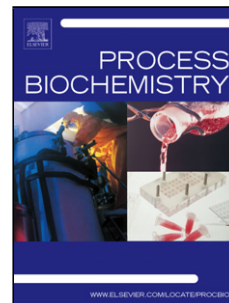
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1 Highlights:

- 2 1. Modifying lignin structure overcomes the lignin barrier.
- 3 2. Bionic treatment increases cellulose accessibility.
- 4 3. Modification of lignin monostructure can significantly modify its recalcitrance.
- 5 4. Bionic treatment alters three-monolignin proportion other than lignin level.
- 6 5. Modified lignin exhibited less adsorption capability onto cellulase.

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