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**Removal of heavy metals from aqueous phases using chemically modified waste Lyocell
fiber**

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Highlights

- Waste Lyocell fiber was chemically modified into cellulose xanthate.
- The sorbent showed high affinity for Pb(II), Cd(II) and Cu(II) ions.
- The sorbent also showed strong Cu(II) selectivity in Pb(II)-Cd(II)-Cu(II) ternary metal solutions.

Graphical abstract

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