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Title: Recycled Chitosan Nanofibril as an Effective Cu(II), Pb(II) and Cd(II) Ionic Chelating Agent: Adsorption and Desorption Performance

Author: Dagang Liu Zehui Li Yi Zhu Li. Zhenxuan Rakesh Kumar



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1 Highlights

2 • Nanofibrous chitosan exhibited cross-linked and multi-porous networks

3 • q_{\max} of heavy metal ions loaded by CSNF was much higher than reported chitosan

4 sorbents.

5 • CSNF could be recycled at about 80% recovery level after three sorption-desorption

6 cycles

7 • Cu(II) was the most competitive ions to be chelated by CSNF

8

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