

# Cellulose Dissolution in Ionic Liquid: A Hydrogen-Bond Study

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## **Abstract**

Cellulose is the most abundant biologically renewable resource on earth. However, due to the hydrogen-bond network in cellulose, it has very limit dissolution ability in most solvents. Recently reseacheres found that cellulose can be solvated in ionic liquid at room temperature, and the regeneration is very sample. This founding extends greatly the application of cellulose. In this talk, I will mainly discuss the hydrogen bond interaction of the dissulotion behavior of cellulose in ionic liquids.