

## **Supporting Information**

### **A promising approach for improving adhesion capacity of foliar nitrogen fertilizer**

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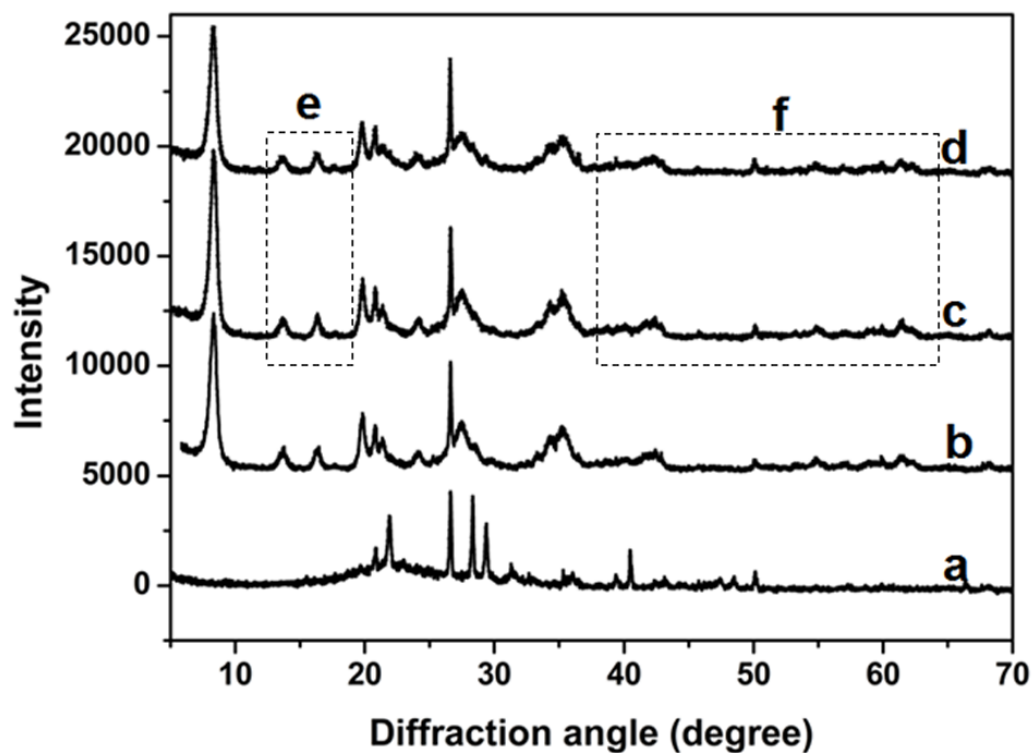


Figure S1: XRD spectra of BCS (a), ATP (b), ATP30 (c), and LCAU (d). It could be seen clearly that no obvious new peak or peak shift was found in ATP30 spectra compared with ATP, indicating that no obvious chemical or crystal structure change occurred during the irradiation process.

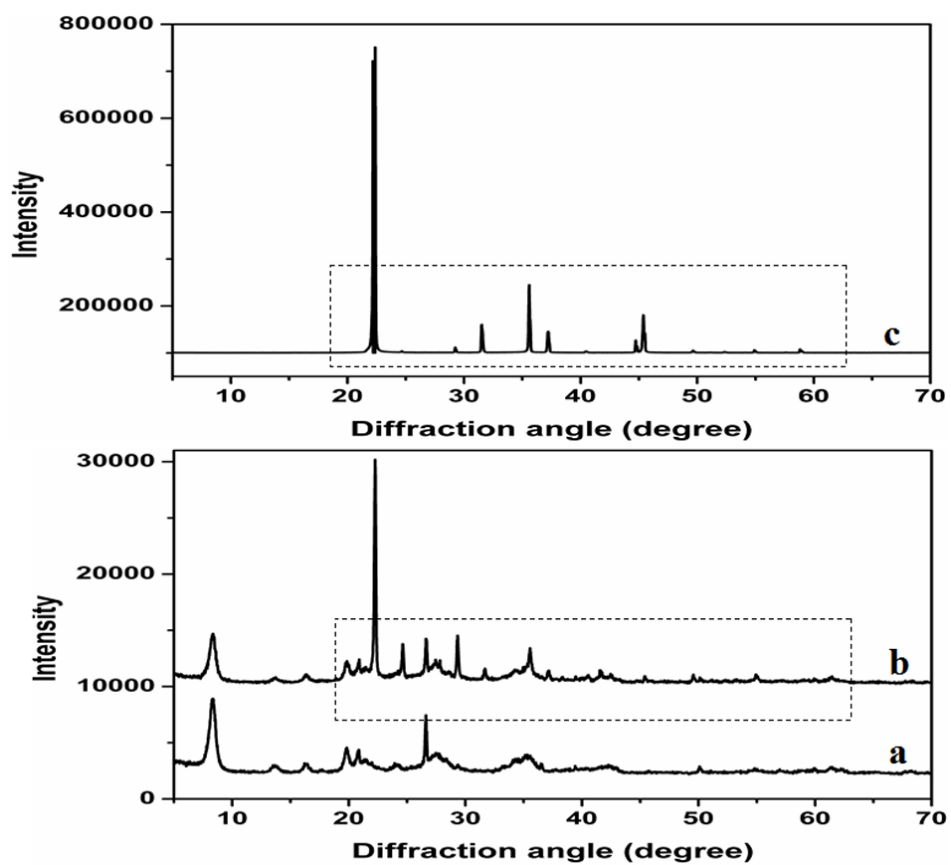


Figure S2: XRD spectra of LCAU (a), and LCFU (b), urea (c). It could be seen clearly that LCFU possessed the characteristic peaks of both urea and LCAU, presenting that urea was successfully adsorbed onto LCAU.

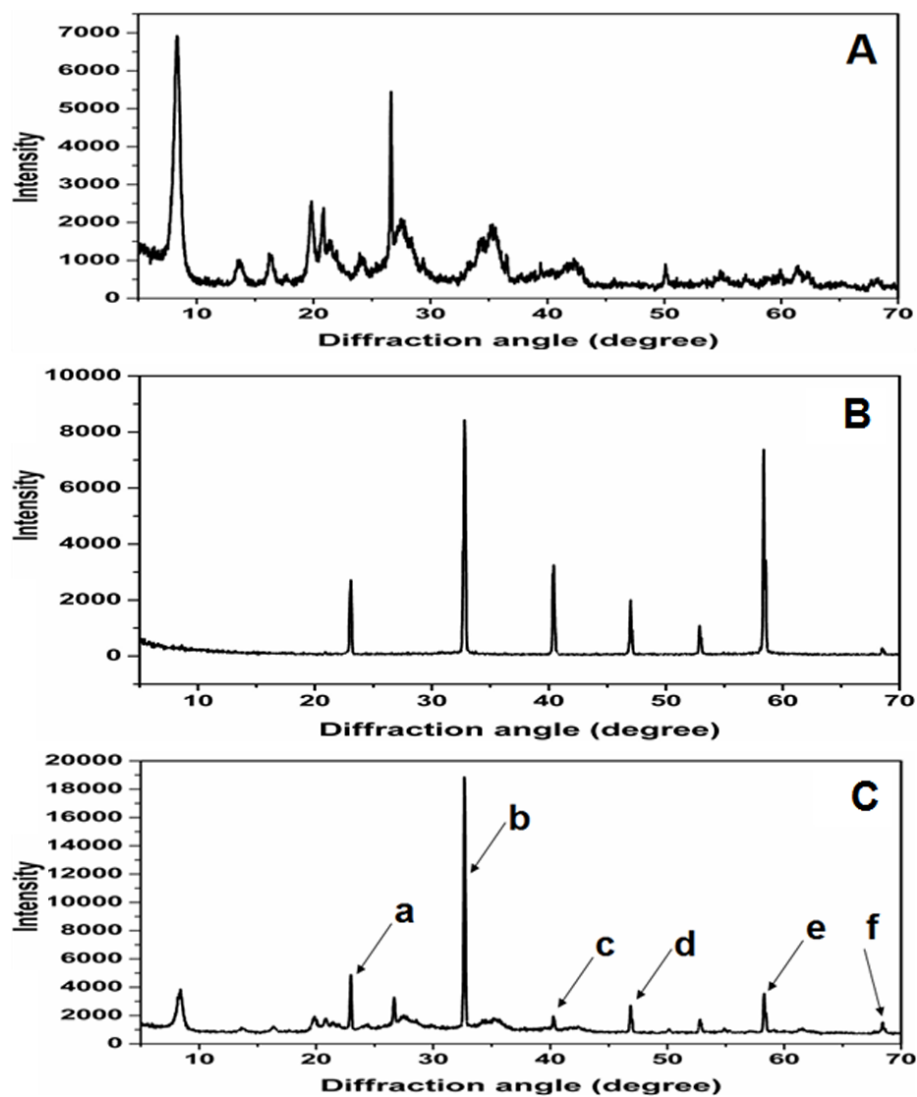


Figure S3: XRD spectra of LCFN (A), NH<sub>4</sub>Cl (B), and LCFN (C). It could be seen clearly that LCFN possessed the characteristic peaks of ATP30 and BCS, indicating that NH<sub>4</sub>Cl was successfully adsorbed into the pores of LCFN.