

Supplemental File

Effects of CaO on nitrogen transformation during pyrolysis of soybean protein

Lihong Wei^{a,*}, Meijia Liu^a, Tianhua Yang^a, Lina Wen

^a College of Energy and Environmental, Shenyang Aerospace University, Key

Laboratory of Clean Energy, Shenyang 110136, Liaoning, China

* Corresponding author.

Tel/fax: Tel: +86 02489728505;

E-mail address: weilihong@sau.edu.cn

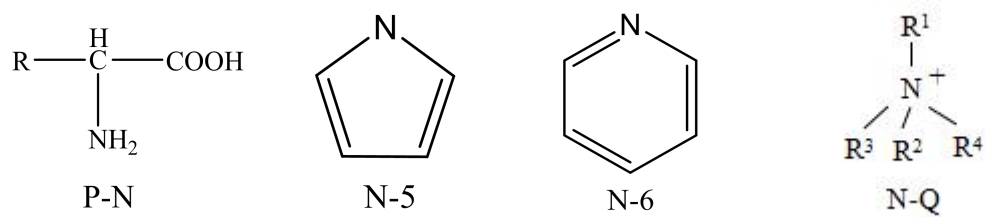
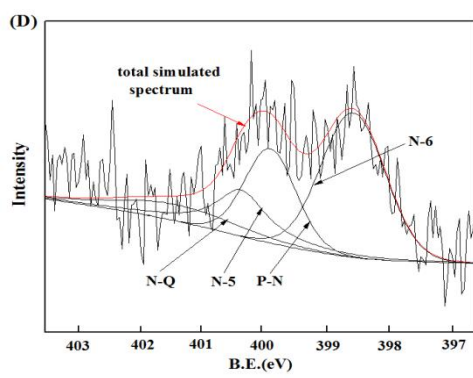
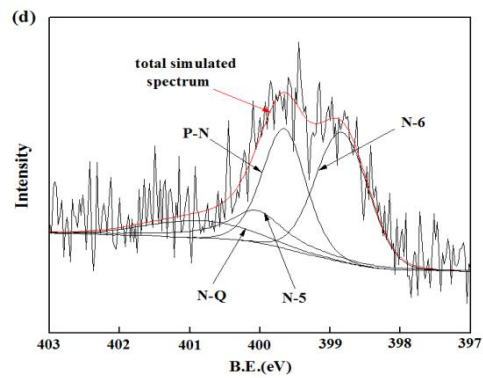
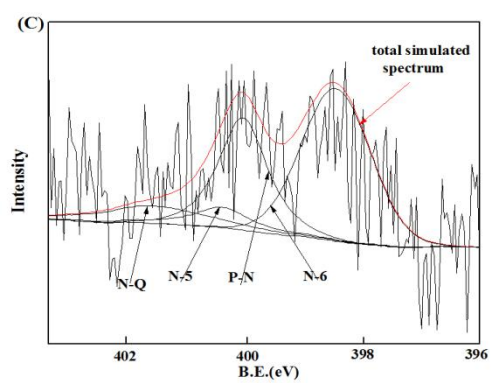
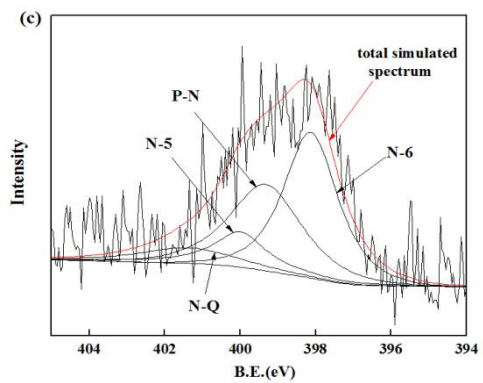
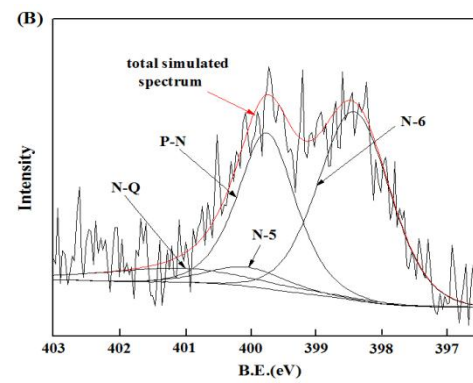
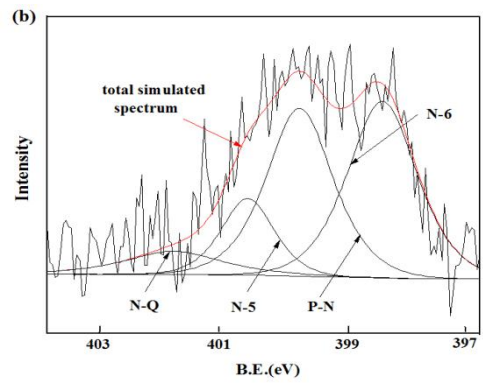
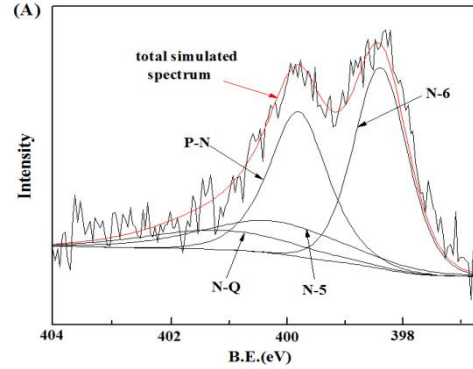
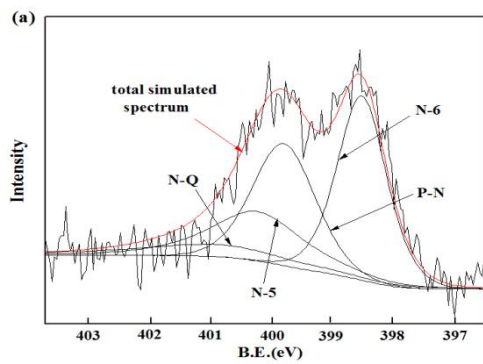


Fig. S1. Nitrogen functional forms in char of SS



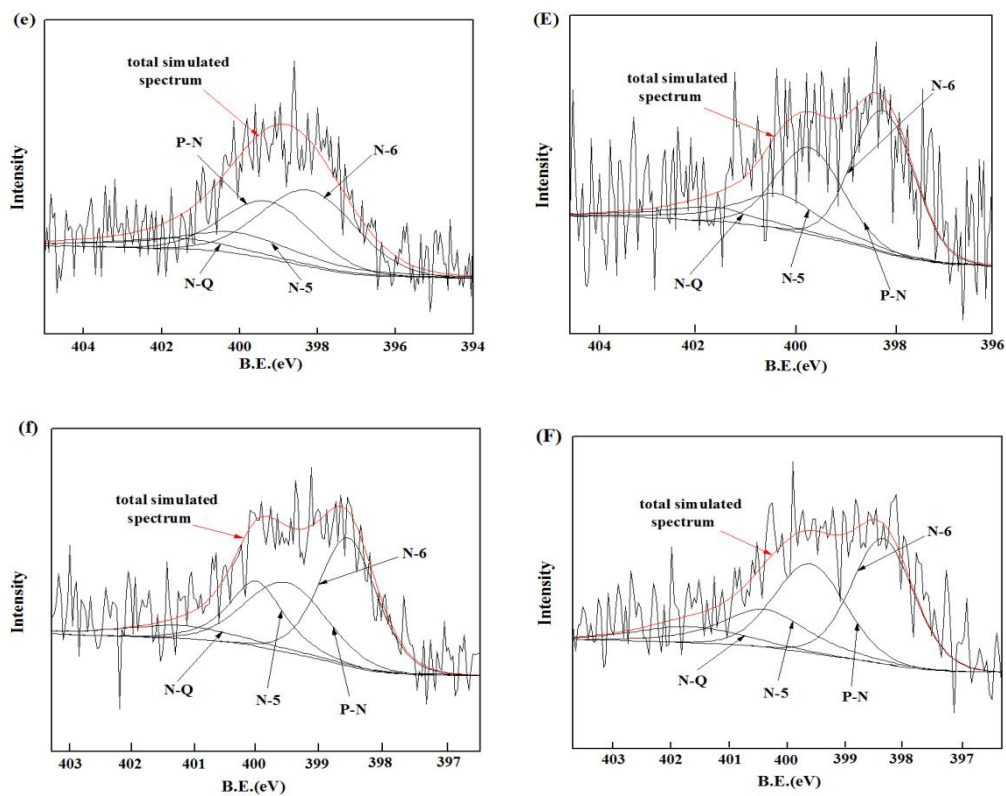


Fig. S2. N 1s XPS spectra of char N during SP pyrolysis

(a) raw SP-600°C, (b) CaO/N=1.8-600°C, (c) CaO/N=2.7-600°C,
 (d) CaO/N=3.7-600°C, (e) CaO/N=4.6-600°C, (f) CaO/N=5.5-600°C
 (A) raw SP-700°C, (B) CaO/N=1.8-700°C, (C) CaO/N=2.7-700°C,
 (D) CaO/N=3.7-700°C, (E) CaO/N=4.6-700°C, (F) CaO/N=5.5-700°C