

Supplementary Information

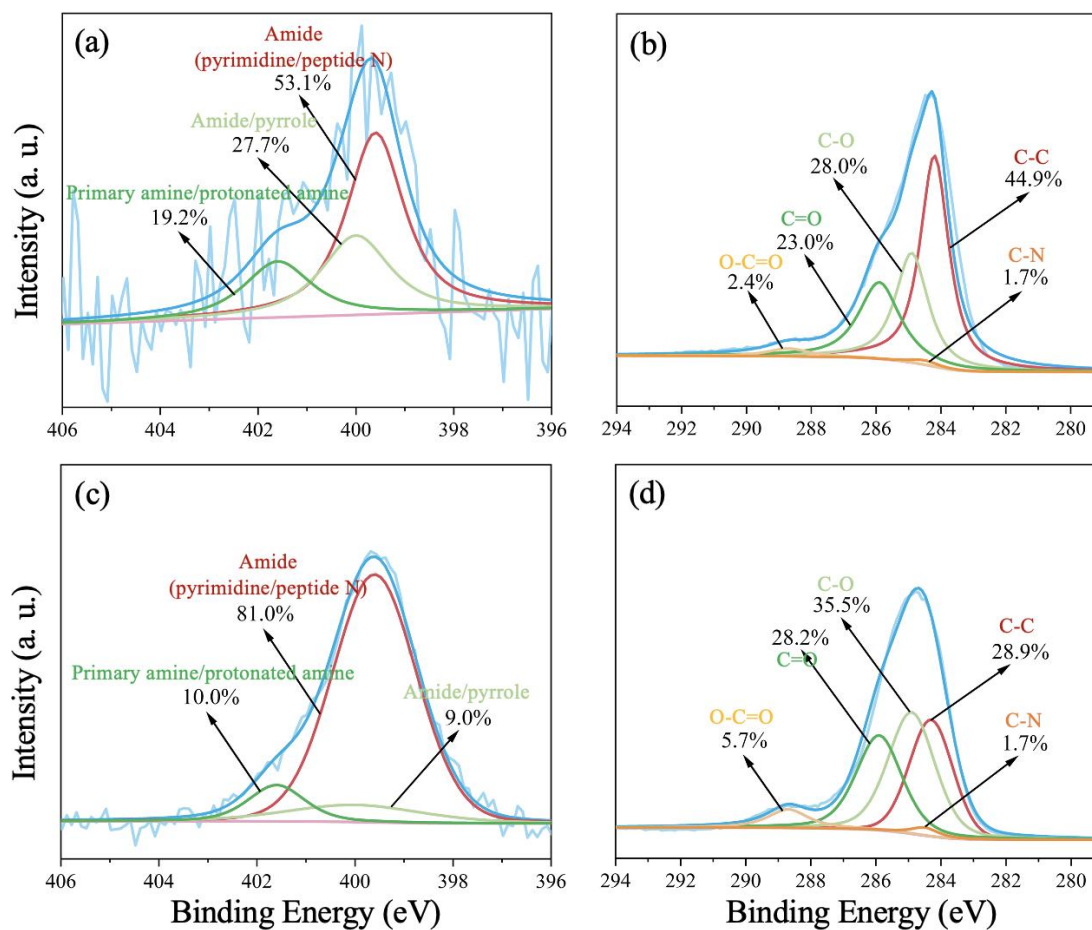


Fig. S1 The high-resolution XPS scan of the N 1s (a and c) and C 1s (b and d) for corn stalk (a and b) and sewage sludge (c and d).

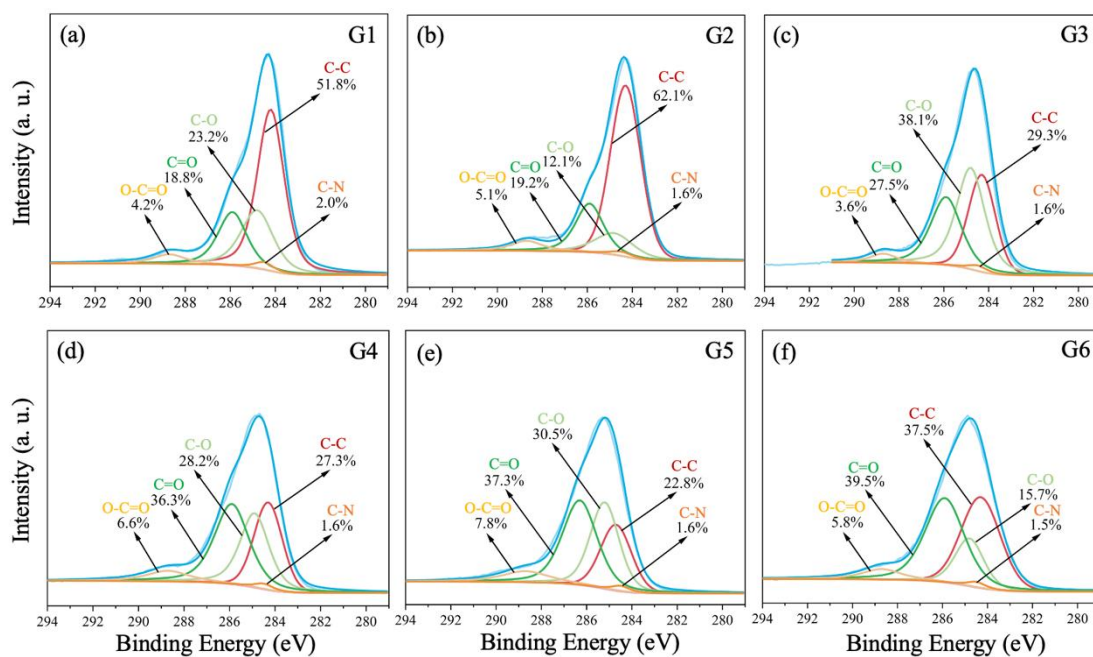


Fig. S2 The high-resolution XPS scan of the C 1s for each hydrothermal humic acid obtained in (a) G1, (b) G2, (c) G3, (d) G4, (e) G5 and (f) G6 trials.

Table S1 Metal content in sewage sludge and corn stalk.

Metal	Metal content in sewage sludge	Metal content in corn stalk
	(mg/g)	(mg/g)
Ca	118.20	1.55
K	13.48	17.2
Mg	11.03	1.68
Na	7.90	0.01
S	18.15	0.22
Si	72.45	0.37
Al	65.59	0.04
Cu	0.24	ND
Fe	194.01	0.10
Li	0.05	ND
Mn	3.99	0.01
Ni	0.10	ND
P	64.83	0.49
Pb	0.12	ND
Sn	0.02	ND
Zn	33.02	0.01
Hg	ND	ND
Cd	ND	ND
Cr	0.20	ND
As	0.08	ND

Notes: ND means not detected.