

Supplementary

Facial Synthesis of Adsorbent from Hemicelluloses for Cr(VI) Adsorption

Yi Wei ¹, Wei Chen ¹, Chuanfu Liu ^{1,*}, and Huihui Wang ^{1,*}

¹ State Key Laboratory of Pulp and Paper Engineering, South China University of Technology, Guangzhou China, wygift@163.com (Y.W);
geogeo_chen@163.com (W.C.).

* Correspondence: chfliu@scut.edu.cn (C.L.); whh@scut.edu.cn (H.W.); Tel.: +86-20-8711-1735 (C.L.)

Table S1. Specific surface area, pore volume, and pore size distribution of samples

Sample	BET surface area	Average pore size	Total pore volume
	(m ² /g)	(nm)	(cm ³ /g)
Hemicelluloses	0.97	3.98	0.00
HTC	3.06	2.83	0.002
HTC-NH ₂	134.51	20.55	0.69

Table S2. Elements contents of HTC and HTC-NH₂ by XPS analysis

Sample	Element content (%)		
	C	O	N
HTC	77.83	21.12	1.04
HTC-NH ₂	59.14	38.77	2.09

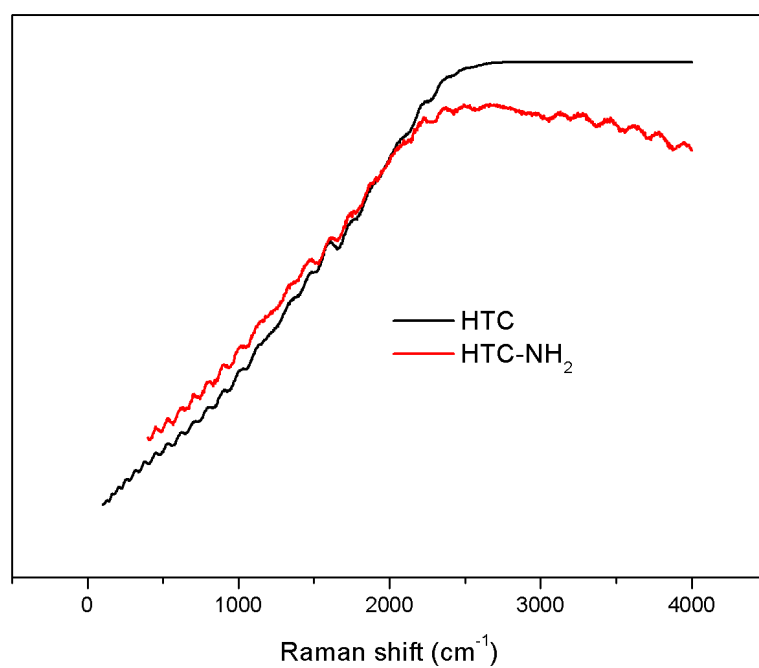


Figure S1. Raman spectra of the hydrothermal carbon materials.

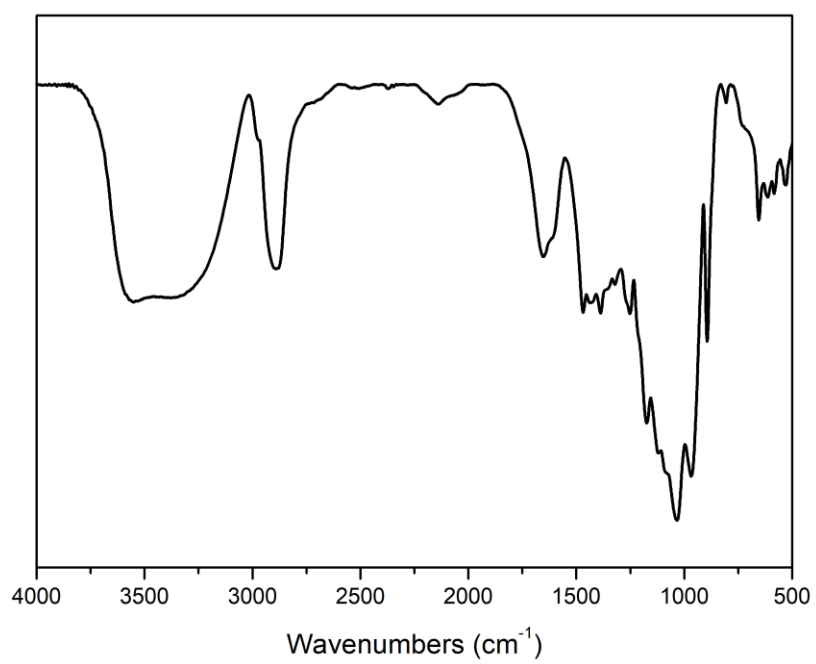


Figure S2. FT-IR spectra of the raw hemicelluloses