

Electronic supplementary information

Nitrogen-doped active carbon as metal-free catalyst for acetylene hydrochlorination

Chunli Zhang ^a, Lihua Kang ^{a, b}, Mingyuan Zhu ^{a, b *} and Bin Dai ^{a, b *}

College of Chemistry and Chemical Engineering; Key Laboratory for Green

Processing of Chemical Engineering of Xinjiang Bingtuan Shihezi University,

Shihezi, Xinjiang, 832000, PR China;

E-mail: zhuminyuan@shzu.edu.cn (Mingyuan Zhu); db_tea@shzu.edu.cn (Bin Dai);

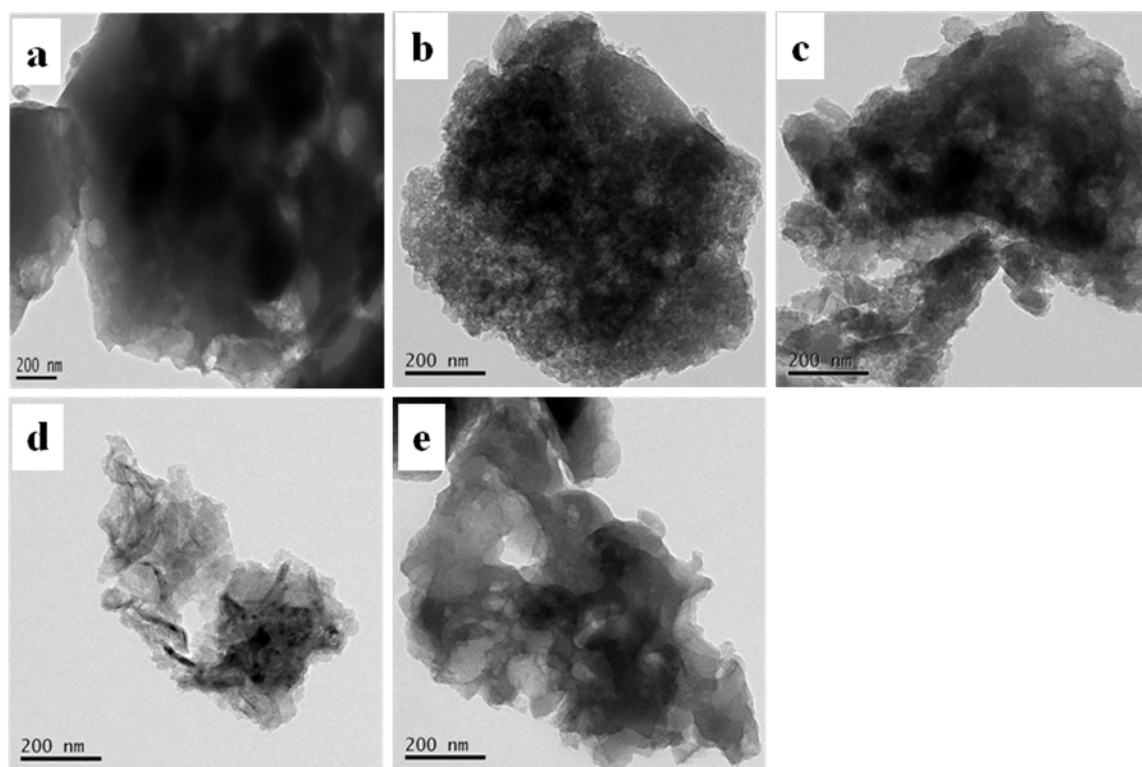


Fig. S1 TEM images of (a) AC, (b) 1#PANI-AC500, (c) 2#PANI-AC500, (d) 3#PANI-AC500, and (e) PANI-AC900.

Table S1 Texture parameters of the AC and 3#PANI-AC catalyst at different temperature.

Temperature/K	Sample					
	AC			PANI-AC		
	S _{BET} (m ² g ⁻¹)	V (cm ³ g ⁻¹)	D (nm)	S _{BET} (m ² g ⁻¹)	V (cm ³ g ⁻¹)	D (nm)
	¹⁾	¹⁾		¹⁾	¹⁾	
773	1062.2	0.59	2.23	183.6	0.11	2.46
873	1132.5	0.64	2.26	395.7	0.25	2.50
973	1173.2	0.66	2.26	459.9	0.27	2.36
1073	1193.7	0.67	2.26	568.8	0.33	2.34
1173	1258.4	0.69	2.23	592.2	0.35	2.35
1273	1397.5	0.70	2.31	810.0	0.45	2.25