

## Supporting Information

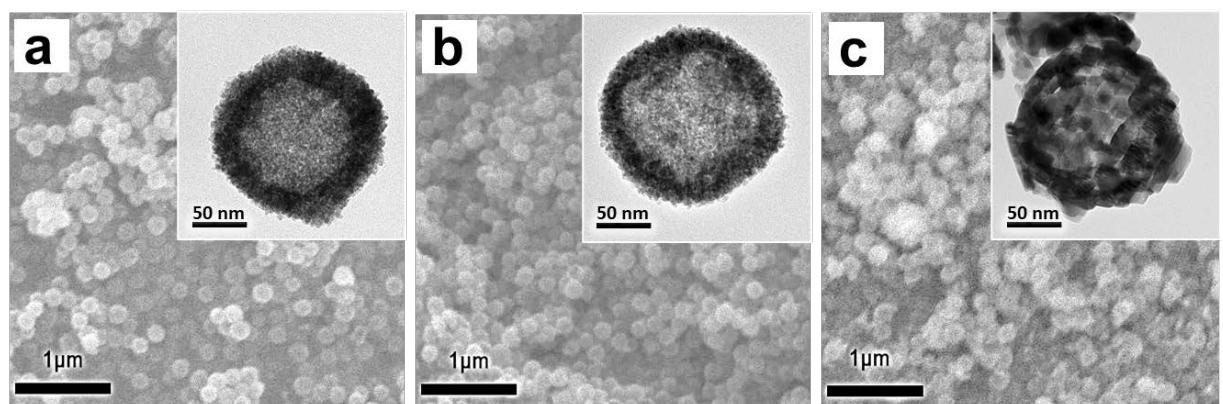


Figure S1. SEM images of H-Cu-CeO<sub>2</sub> catalysts: (a) H-Cu-CeO<sub>2</sub> (HT), (b) H-Cu-CeO<sub>2</sub> (500) and (c) H-Cu-CeO<sub>2</sub> (800)

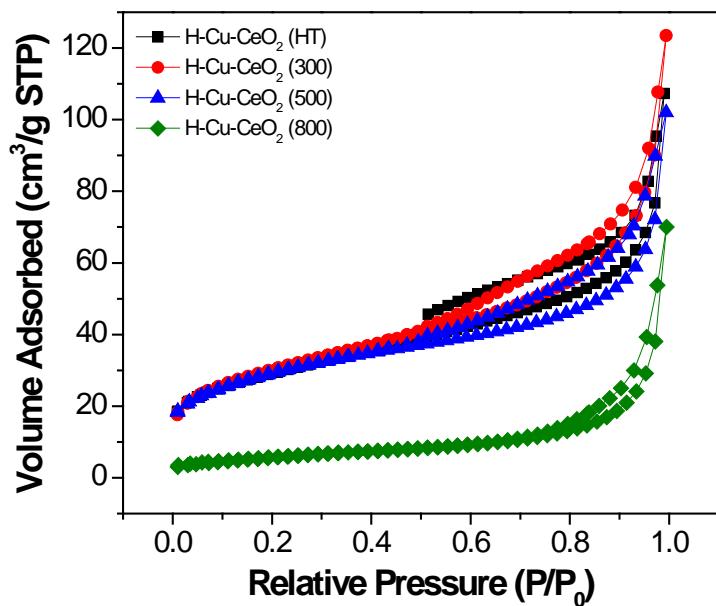


Figure S2. N<sub>2</sub> adsorption-desorption isotherms of H-Cu-CeO<sub>2</sub> catalysts

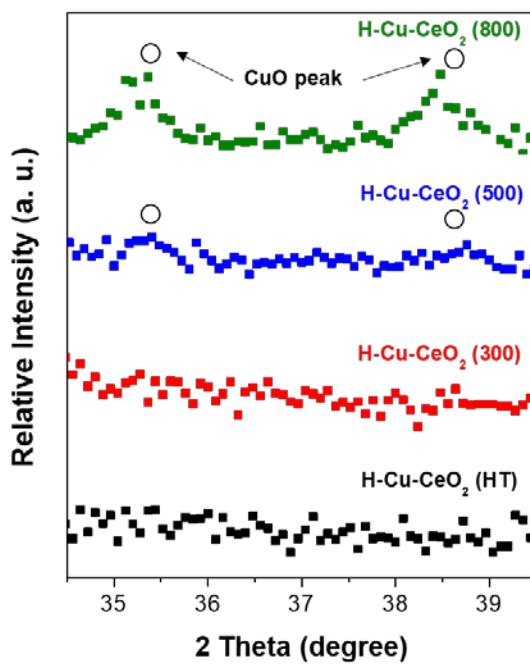


Figure S3. The XRD patterns of H-Cu-CeO<sub>2</sub> catalysts in the 2 theta range of 34.5 to 39.5°

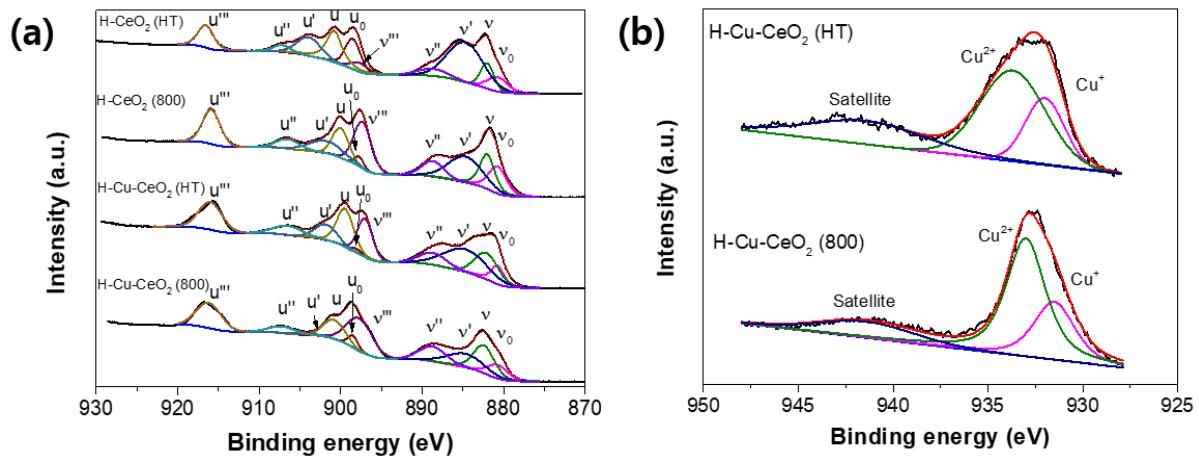


Figure S4. XPS results of H-CeO<sub>2</sub> (x) supports and H-Cu-CeO<sub>2</sub> (x) catalysts: (a) Ce 3d and (b) Cu 2p spectra

Table S1. Relative mass ratio and estimated CuO loading values of H-Cu-CeO<sub>2</sub> catalysts

Sample	Mass ratio			Cu/(Cu+Ce)	Estimated CuO/(CuO+CeO <sub>2</sub> )
	Cu	Ce	others		
H-Cu-CeO <sub>2</sub> (HT)	0.1079	0.8724	0.0197	0.1101	0.1114
H-Cu-CeO <sub>2</sub> (500)	0.1135	0.8675	0.0190	0.1157	0.1176
H-Cu-CeO <sub>2</sub> (800)	0.1037	0.8754	0.0209	0.1059	0.1078