

Selective Catalytic Hydrogenation of Vegetable Oils over Copper-Based Catalysts Supported on Amorphous Silica

Supplementary information

1 BET Surface analysis

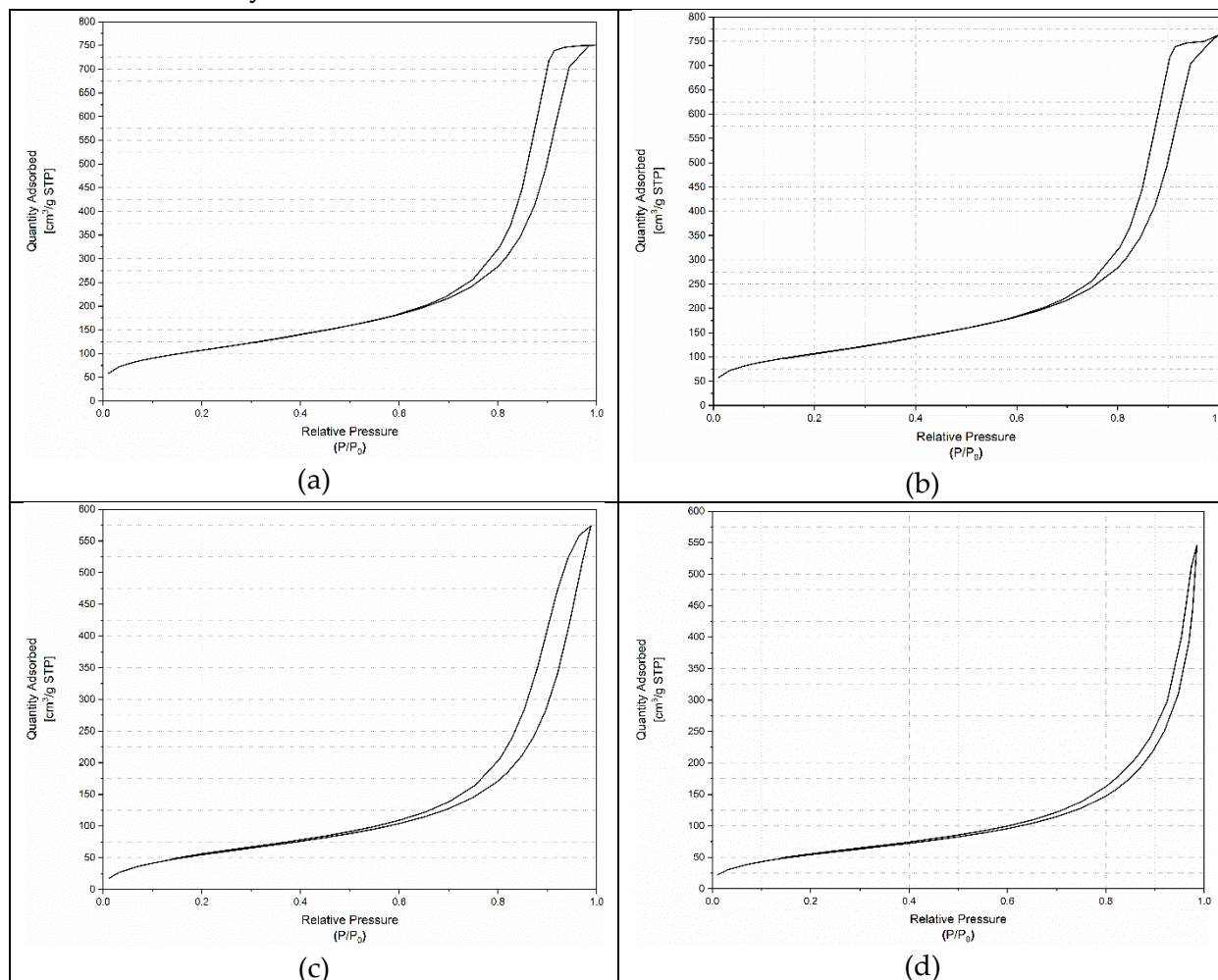


Figure S1: Adsorption and desorption curves of nitrogen of: (a) Cu₅SiO₂HP; (b) reduced Cu₁₀SiO₂HP; (c) Cu₅SiO₂AE; (d) reduced Cu₁₀SiO₂AE.

2 XPS survey of Cu 10% wt. samples.

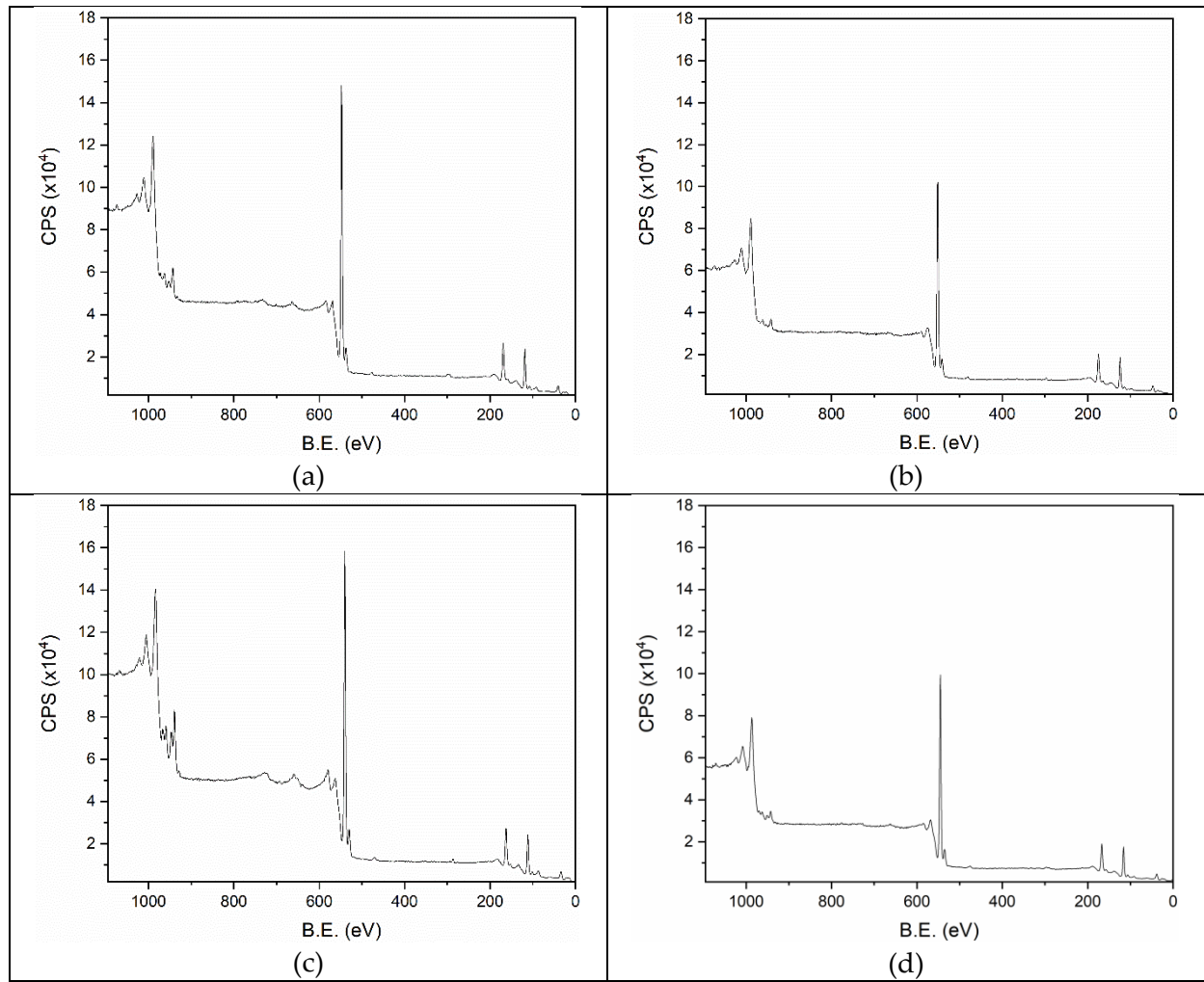


Figure S2: XPS survey data of: (a) Cu10SiO₂HP; (b) reduced Cu10SiO₂HPR; (c) Cu10SiO₂AE; (d) reduced Cu10SiO₂AER.

3 EDAX composition table.

Table S1: EDAX analysis for samples with 10% content of Cu, Oxygen was calculated stoichiometrically.

Sample	Cu At%	Si At%	O At%
Cu10SiO ₂ HP	12.44 \pm 3.20	40.96 \pm 2.64	46.6 \pm 1.64
Cu10SiO ₂ AE	9.81 \pm 2.43	44.52 \pm 2.22	45.67 \pm 2.47
Cu10SiO ₂ HPR	12.67 \pm 2.94	38.85 \pm 2.75	48.48 \pm 1.1
Cu10SiO ₂ AER	8.20 \pm 2.61	42.1 \pm 2.12	48.6 \pm 1.52