

Supplementary Material

Ultra-Fast Construction of Novel S-Scheme CuBi₂O₄/CuO Heterojunction for Selectively Photocatalytic CO₂ Conversion to CO

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Table S1. Binding energy and band gap of the obtained samples by XPS and

DRS measurements				
Sample	Bi 4f	Cu 2p	VB	Eg
	(eV)	(eV)	(eV)	(eV)
CBO	158.84	-	1.02	1.86
CuO	-	934.01	1.44	1.70
30CBO/CuO	158.95	933.84	-	-

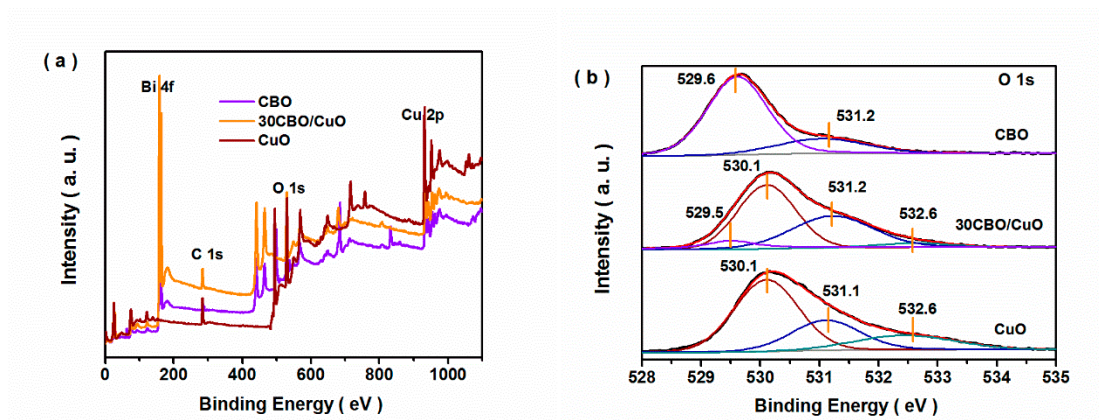


Figure S1. Survey spectra (a) and high resolution O 1s XPS spectra (b) of the CBO, CuO and 30CBO/CuO samples.

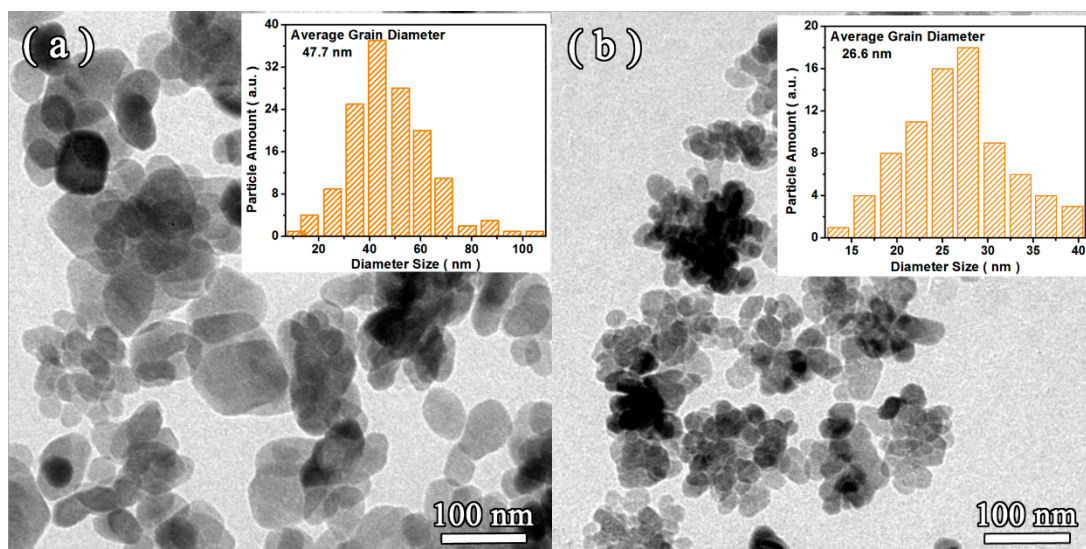


Figure S2. TEM image of CBO (a) and CuO (b) samples (inset: diameter size distribution)

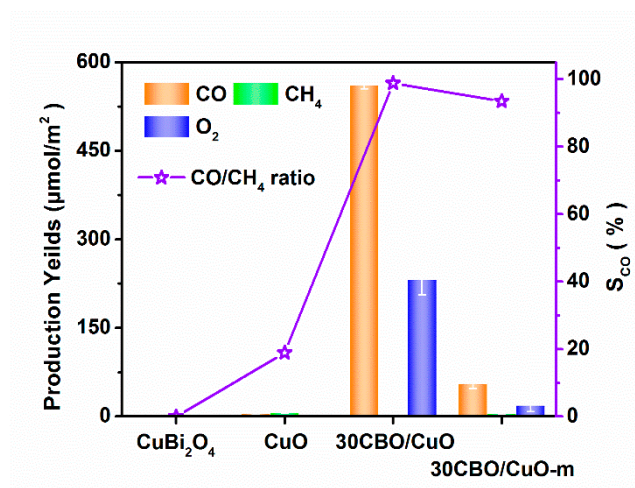


Figure S3. Photocatalytic activity for different samples after 3 h of visible-light illumination.