

Catalytic Activity Boost of CeO₂/Co₃O₄ Nanospheres Derived from CeCo-glycolate via Yolk-shell Structural Evolution

Xilan Feng,^a Dapeng Liu,^{*a} Wang Li,^a Xin Jin,^a Zheng Zhang,^a and Yu Zhang^{*abc}

^a Key Laboratory of Bio-Inspired Smart Interfacial Science and Technology of Ministry of Education, School of Chemistry, Beihang University, Beijing 100191, China.

^b International Research Institute for Multidisciplinary Science, Beihang University, Beijing 100191, P. R. China.

^c Beijing Advanced Innovation Center for Biomedical Engineering, Beihang University, Beijing 100191, P. R. China.

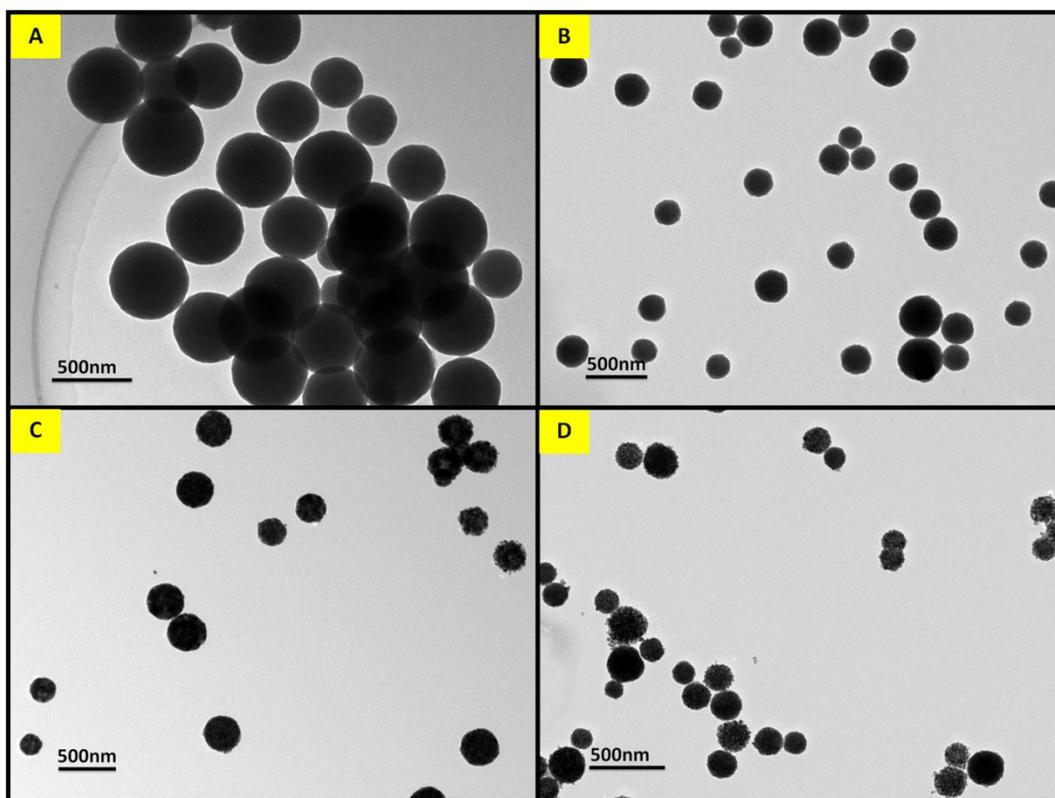


Figure S1. The low-magnification TEM images of (A) Co-gly, (B) CeCo-1/20-gly, (C) Co-p, and (D) CeCo-1/20.

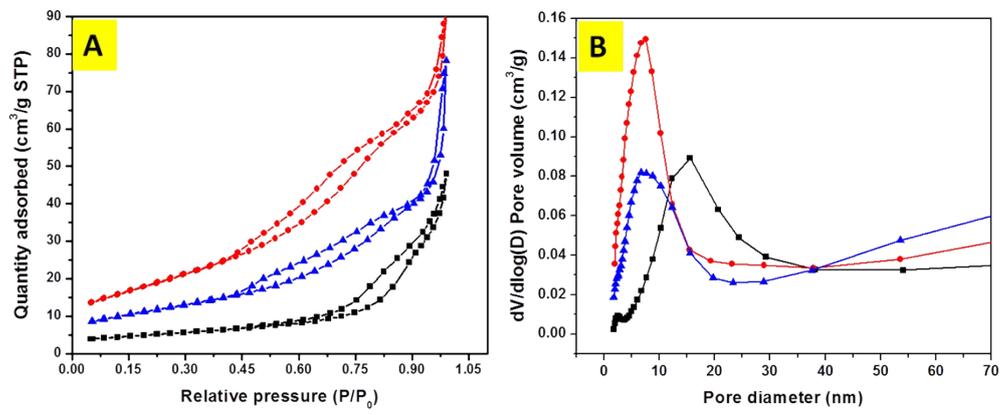


Figure S2. (A) Nitrogen sorption isotherm at 77 K and (B) pore size distribution of Co-p-1, CeCo-1/20-1 (red), and CeCo-1/20 (blue).

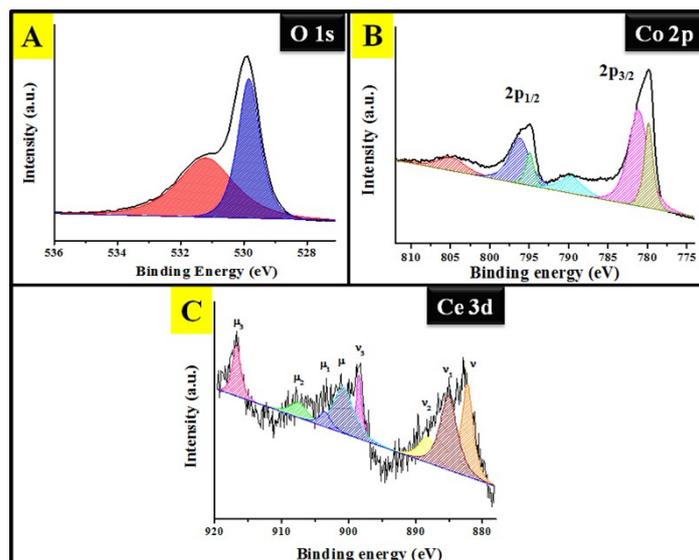


Figure S3. XPS spectra of CeCo-1/20-1: (A) O 1s, (B) Co 2p, and (C) Ce 3d;

Table S1. T₁₀, T₅₀ and T₉₀ values of Co-p, CeCo-1/20, Co-p-1, and CeCo-1/20-1.

	T ₁₀ (°C)	T ₅₀ (°C)	T ₉₀ (°C)
Co-p	187	210	219
Co-p-1	108	145	160
CeCo-1/20	52	104	133
CeCo-1/20 -1	52	92	107

Table S2. BET data of Co-p-1, CeCo-1/20-1 and CeCo-1/20.

	Surface Area (m ² /g)	Pore Volume (cm ³ /g)	Pore Size (nm)
Co-p-1	17.57	0.07	13.43
CeCo-1/20-1	66.24	0.14	6.79
CeCo-1/20	40.79	0.12	9.65