

Supporting Information

Au@PdAg core-shell nanotubules as advanced electrocatalysts for methanol electrooxidation in alkaline media

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Table 1. Summary of electrocatalytic performance of Au@PdAg-NTs and commercial Pd/C

Electrode	E_s (V)	E_p (V)	j_p (mA cm ⁻² / mA mg _{Pd} ⁻¹)	E_a (KJ mol ⁻¹)	$J_{t=1000s}$ (mA cm ⁻²)	Metal loading/ mg _{Pd}	ECSA/cm ² mg _{Pd} ⁻¹
Pd/C/GC	-0.30	-0.09	1.59/735	41.5	0.075	0.002	525.5
Au@PdAg-NTs/GC	-0.40	-0.07	3.50/1554	28.7	0.275	0.004	443.8

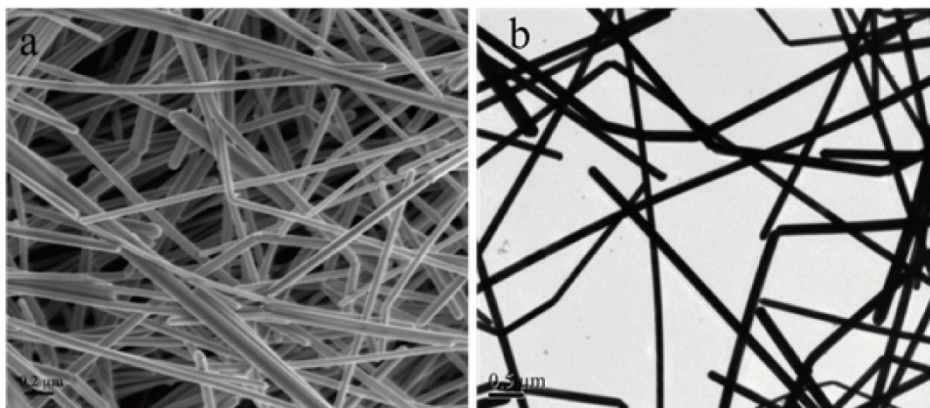


Fig. S1 (a) SEM and (b) TEM images of Ag nanowires.

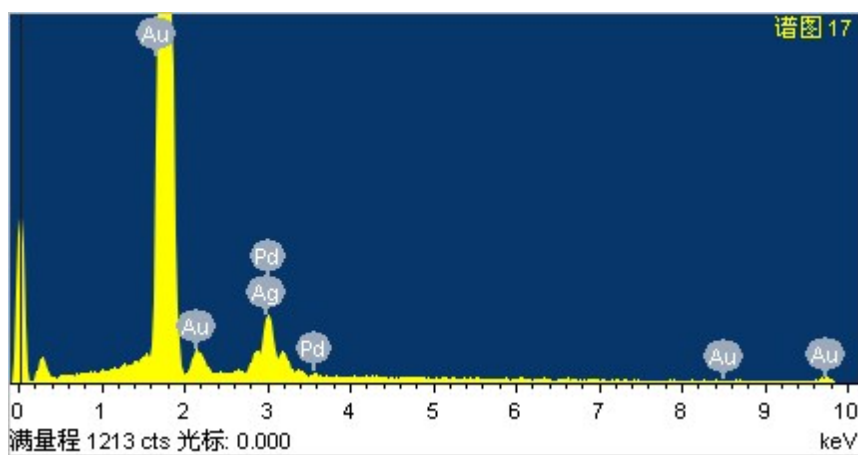


Fig. S2 EDS spectrum of Au@PdAg-NTs on a Si substrate.

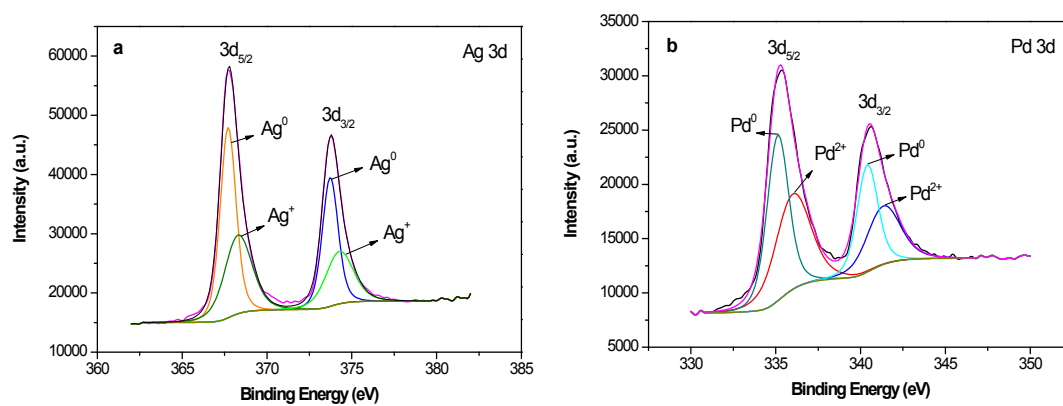


Fig. S3 (a) Ag 3d and (b) Pd 3d XPS spectra of Au@PdAg-NTs. Peaks were deconvoluted to reflect different contributions.