Supporting Information

Hierarchically Nanostructured Palladium/Cobalt Carbonate Hydroxide Nanocomposite as an Efficient Catalyst for Ethanol Electrooxidation

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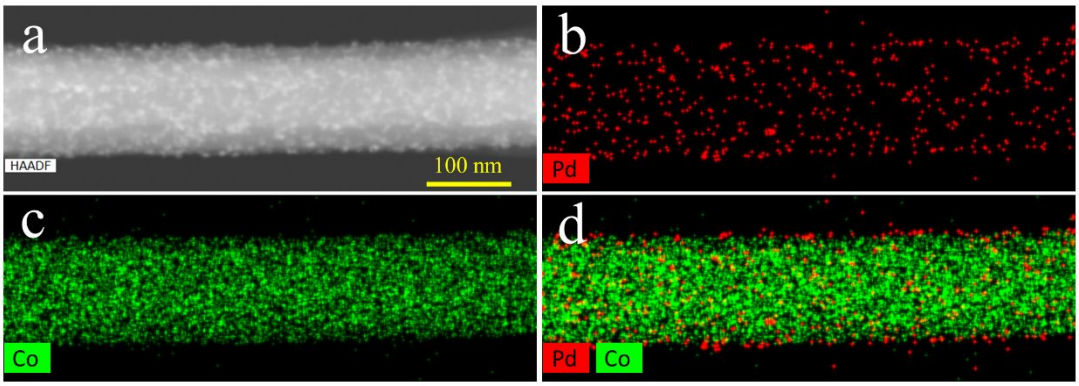

Figure S1. (a) HAADF-STEM image of PdO/CCH/CFC sample and corresponding EDS maps for Pd (b) and Co (c) and combined image (d).

Table S1. A comparison of anodic peak current density in forward scan of various electrocatalysts towards the EOR.

Catalyst	Current density ($mA\ mg^{-1}$)	Testing conditions	Reference
Ni@Pd-Ni NAs	622	1.0 M KOH+0.5 M ethanol, 50 mV s^{-1}	[1]
Pd/GA/NF	874	1.0 M KOH+1.0 M ethanol, 50 mV s^{-1}	[2]
Pd/NF	979.1	1.0 M KOH+1.0 M ethanol, 50 mV s^{-1}	[3]
Pd@CoP NSs/CFC	1413.3	1.0 M KOH+1.0 M ethanol, 50 mV s^{-1}	[4]
Pd/$Ni(OH)_2$@C/NF	1295	1.0 M NaOH+1.0 M ethanol, 50 mV s^{-1}	[5]
$Pd_1Pt_{1.03}$/GA/NF	3408.7	1.0 M KOH+1.0 M ethanol, 50 mV s^{-1}	[6]
PdCo NTAs/CFC	1562	1.0 M KOH+1.0 M ethanol, 50 mV s^{-1}	[7]
$Pd_{90}Cu_{10}$/CFC	1678	1.0 M KOH+1.0 M ethanol, 20 mV s^{-1}	[8]
Pd/CCH/CFC	2029.3	1.0 M NaOH+1.0 M ethanol, 50 mV s^{-1}	This work

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