Electronic Supplementary Information

Simple polyol synthesis of porous coral-like palladium-silver alloy nanostructures with enhanced electrocatalytic activity for glycerol oxidation reaction

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Fig. S1. EDS spectra of (A) Pd$_{63}$Ag$_{37}$ nanocorals, Pd$_{50}$Ag$_{50}$ (B), and Pd$_{40}$Ag$_{60}$ (C).
Fig. S2. TEM images of Pd$_{50}$Ag$_{50}$ (A) and Pd$_{40}$Ag$_{60}$ (B).
**Fig. S3.** High-resolution Pd 3d XPS spectra of Pd$_{63}$Ag$_{37}$ nanocorals and commercial Pd black.

In text:

$\text{Pd}_{63}\text{Ag}_{37} \text{ANCs}$

$\text{Pd}^0$

$\text{Pd}^{2+}$

$\Delta E = -0.29 \text{ eV}$

Intensity / a.u.

Binding energy / eV

344 340 336 332

Pd black

Pd-Ag ANC$\text{s}$
Fig. S4. Schematic illustration for glycerol electrooxidation on coral-like Pd$_{63}$Ag$_{37}$ nanocatalyst in alkaline media (Dashed arrows correspond to a possible progress of the reaction).