Supporting Information

Biogenic flower-shaped Au-Pd nanoparticles: synthesis, SERS detection and catalysis towards benzyl alcohol oxidation

Daohua Sun,* Genlei Zhang, Jiale Huang, Xinde Jiang, Xiaolian Jing, Yanmei Zheng, Jing He, and Qingbiao Li

Department of Chemical and Biochemical Engineering, College of Chemistry and Chemical Engineering, Fujian Provincial Key Laboratory of Chemical Biology, Xiamen University, Xiamen, 361005, China

Figure 1S. TEM images and histograms (inlet) of as-synthesized Au–Pd bimetallic NPs with initial Au/Pd ratios of (A) 3:1 and (B) 1:3.
Figure 2S. TEM image of flower-shaped Au(1)Pd(1)/MgO/SI catalysts.

Figure 3S. Catalytic performance of flower-shaped Au-Pd/MgO catalysts with different Au/Pd molar ratios prepared by SI method. Reaction condition: metal load, 2 wt%; 0.4 g catalyst; O₂ flow rate, 90 mL·min⁻¹ (1 atm); reaction temperature, 90 °C; reaction time, 6 h; and stirring rate, 1200 rpm.