

Electronic Supplementary Information (ESI):

**Nanoporous bimetallic Pt-Au alloy nanocomposites with superior catalytic activity towards electro-oxidation of methanol and formic acid**

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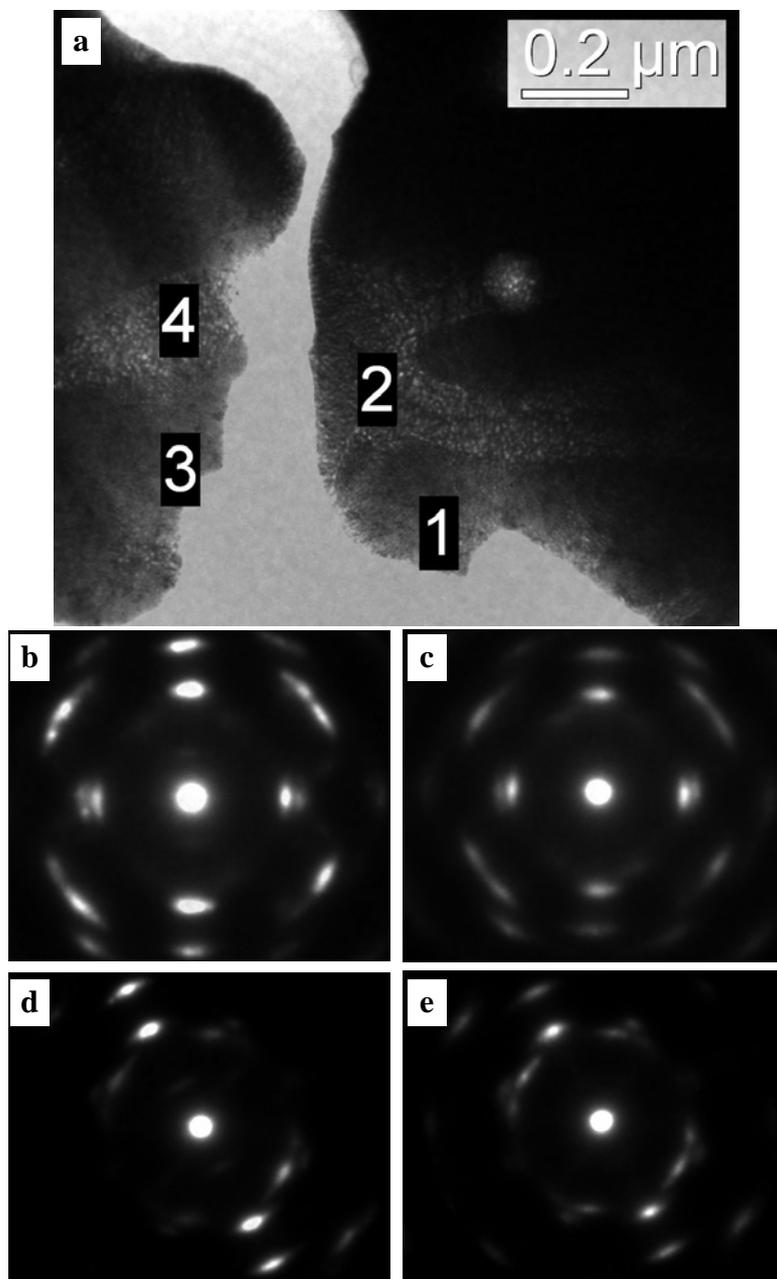


Fig. S1. (a) TEM image showing the microstructure of the np-Pt<sub>60</sub>Au<sub>40</sub> NCs fabricated by dealloying the rapidly solidified Al<sub>75</sub>Pt<sub>15</sub>Au<sub>10</sub> precursor in the 20 wt.% NaOH solution, and (b-d) SAED patterns corresponding to the positions 1-4, respectively.

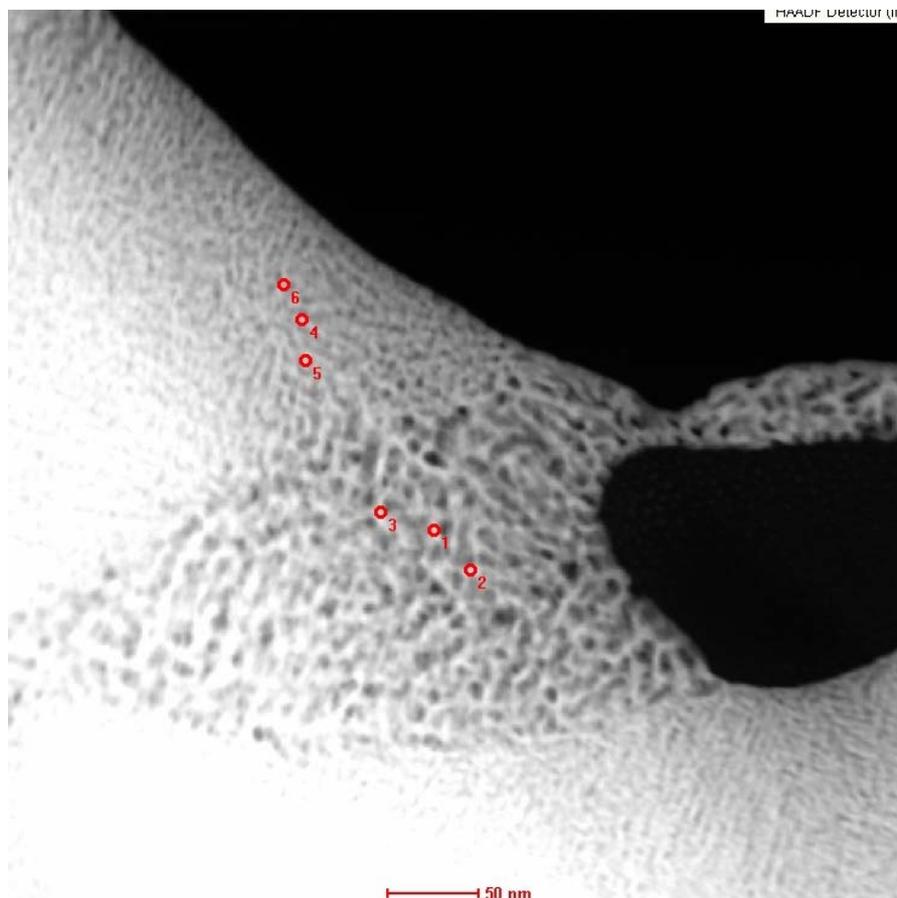


Fig. S2. HAADF-STEM image showing the microstructure of the np-Pt<sub>60</sub>Au<sub>40</sub> NCs fabricated by dealloying the rapidly solidified Al<sub>75</sub>Pt<sub>15</sub>Au<sub>10</sub> precursor in the 20 wt.% NaOH solution. The positions for NB-EDX analysis are highlighted by small circles with the numbers 1-6 beside.