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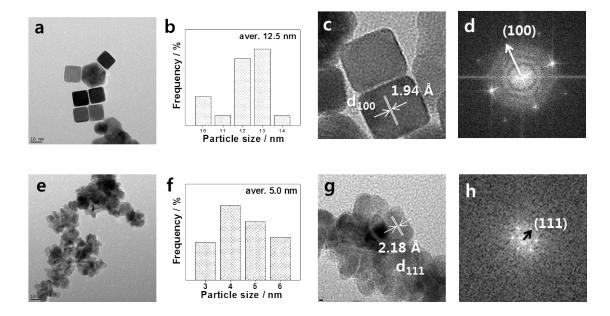


Fig. S1 HR-TEM images, size distribution histograms, high-resolution TEM images, and FFT patterns of the PtPd NPs ((a)-(d)) synthesized in the presence of $W(CO)_6$ and poly-PtPd ((e)-(h)) prepared using borohydride reduction method.

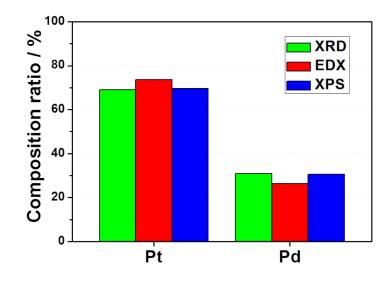


Fig. S2 Comparison of the elemental compositions of Pt and Pd in the cubic PtPd NPs measured using EDX, XRD, and XPS.

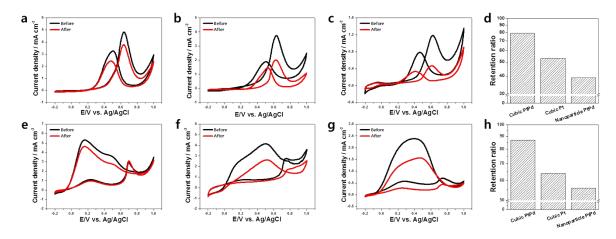


Fig. S3 CVs of the cubic PtPd ((a),(e)), cubic Pt ((b),(f)), and poly-PtPd ((c),(g)) NPs before and after the stability test of MOR and FAOR, respectively. Comparison of retention ratios of the as-prepared NPs before and after the stability test of (d) MOR and (h) FAOR.