Support Information

Deposition of platinum pattern by a liquid process

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Fig. S1 (a) TEM images of Pt nanoparticles prepared by the alcohol reduction; (b) Distribution diagram of Pt nanoparticles; (c) Selected area electron diffraction pattern of Pt nanoparticles; (d) High resolution TEM image of Pt nanoparticles.
Fig. S2 Cross-sectional HRTEM of Pt deposition film. Insets show two FFT images at the scanning area of (1) and (2), indicating the same crystalline orientation.
**Fig. S3** Leakage current of PZT film on the deposited Pt film by liquid process

**Fig. S4** P-E hysteresis loops of PZT film on a sputtered Pt film (Tanaka Kikinzoku)