Supporting Information for

Mild temperature synthesis of gold nanoplates using polyethyleneimine and their improved surface enhanced Raman signal

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**Fig. S1.** UV-vis spectra of Au nanoplates shown in Fig. 1 and Au nanoparticles shown in Fig. 4(a).
**Fig. S2.** TEM image of a sample prepared under same conditions as those in Fig. 1, except synthesis was conducted in presence of BPEI having smaller molecular weight (MW $\sim$ 25,000) instead of BPEI (MW $\sim$ 750,000).
**Fig. S3.** TEM image of sample prepared under same conditions as those in Fig. 1 except synthesis was conducted in absence of BPEI.
**Fig. S4.** TEM image of Au nanoparticles synthesized by reacting HAuCl$_4$ and BPEI.