Electronic Supplemental Information

Fast fabrication of homogeneous Ag nanostructures on dual-acid doped polyaniline for SERS applications

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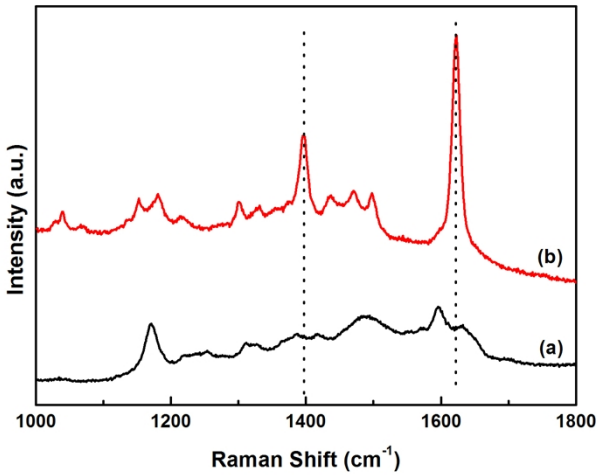

Fig. S1 SERS spectra of pure Ag/PANI (a) and methylene blue on Ag/PANI.

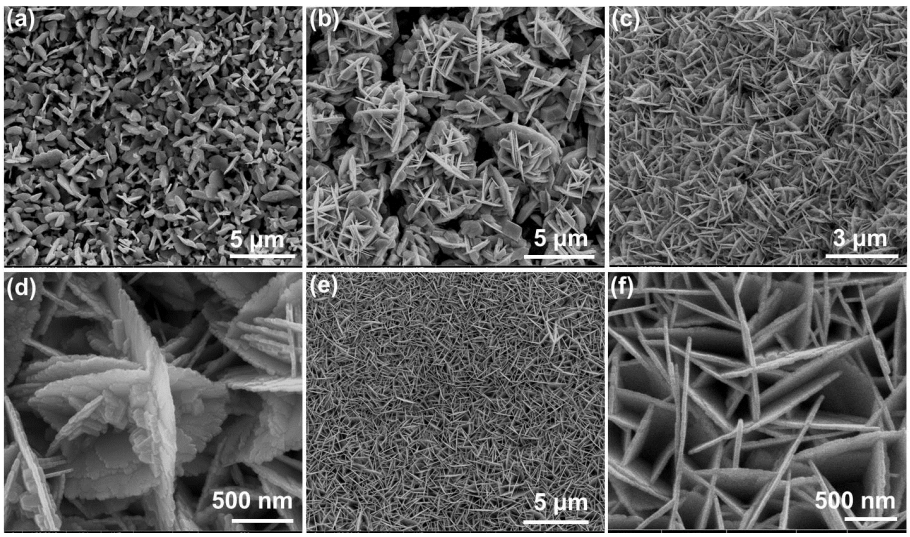

Fig. S2 SEM images of the Ag nanostructures grown on dual-acid (AA and lactic acid) doped PANI membranes for different reaction: (a)30s ; (b)1min; (c,d) 2min; (e,f) 5min.

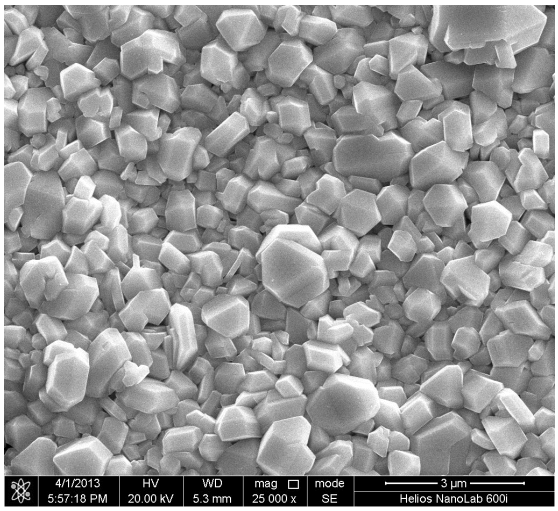

Fig. S3 SEM images of the Ag nanostructures grown on dual-acid (AA and mandelic acid) doped PANI membranes for 2min.

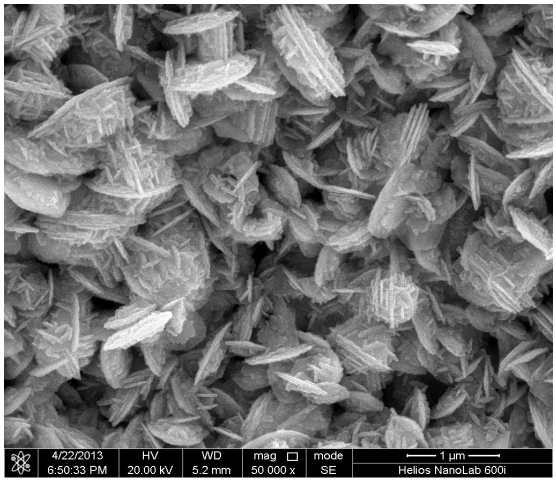

Fig. S4 SEM images of the Ag nanostructures grown on dual-acid (AA and citric acid) doped PANI membranes for 2min.

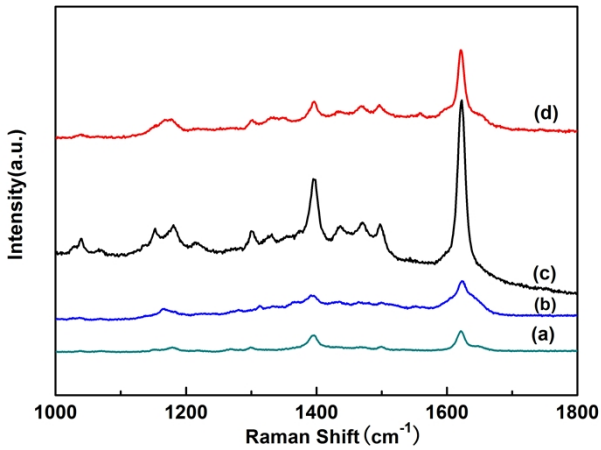

Fig. S5 SERS spectra of MB with a concentration of 10^{-6} M on the Ag nanostructures grown on dual-acid (AA and succinic acid) doped PANI membranes for different reaction periods: (a) 30 s; (b) 1 min; (c) 2 min; (d) 5 min.

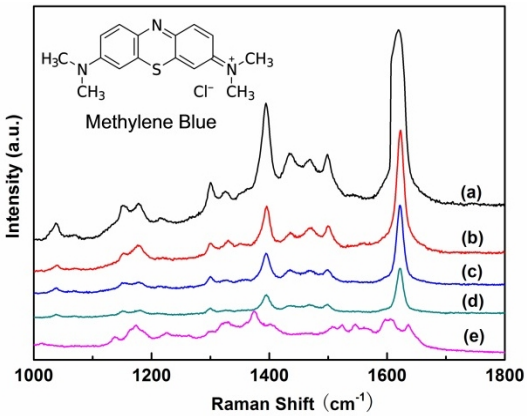

Fig. S6 SERS spectra of MB on silver nanostructures supported on AA-SA doped PANI membranes at a reaction time of 2 min. (a)10^{-4} M, (b)10^{-6} M, (c)10^{-8} M, (d)10^{-10} M and (e)10^{-11} M.