

Electronic Supplementary Information

Laser-induced synthesis of Ag nanoparticles on the silanized surface of the fiber taper and application as SERS probe

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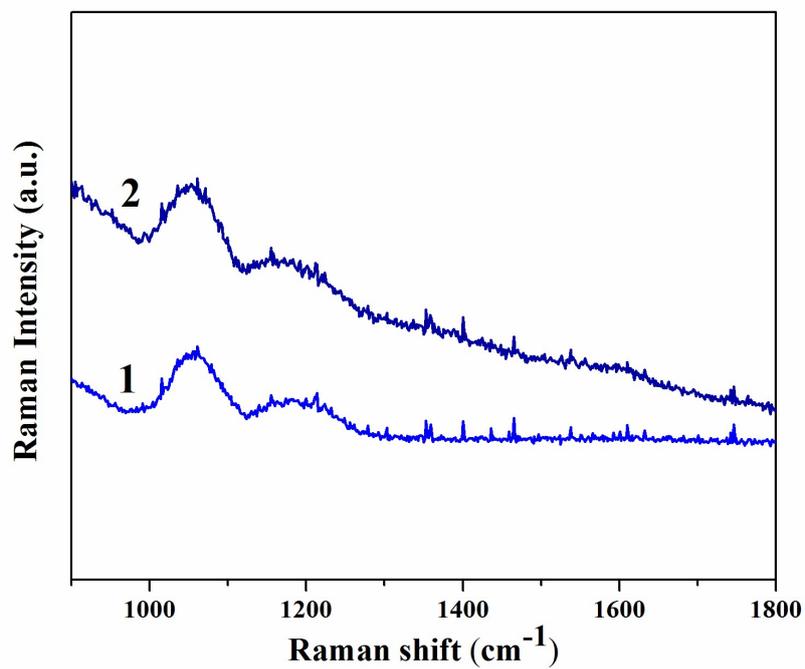


Fig. S1 The background Raman spectrum introduced by the naked fiber taper (curve 1), and the Raman spectrum of the silanized fiber probe with the citrate ions and APTMS molecules hung on (curve 2). All the spectra were measured in water at 20 mW.

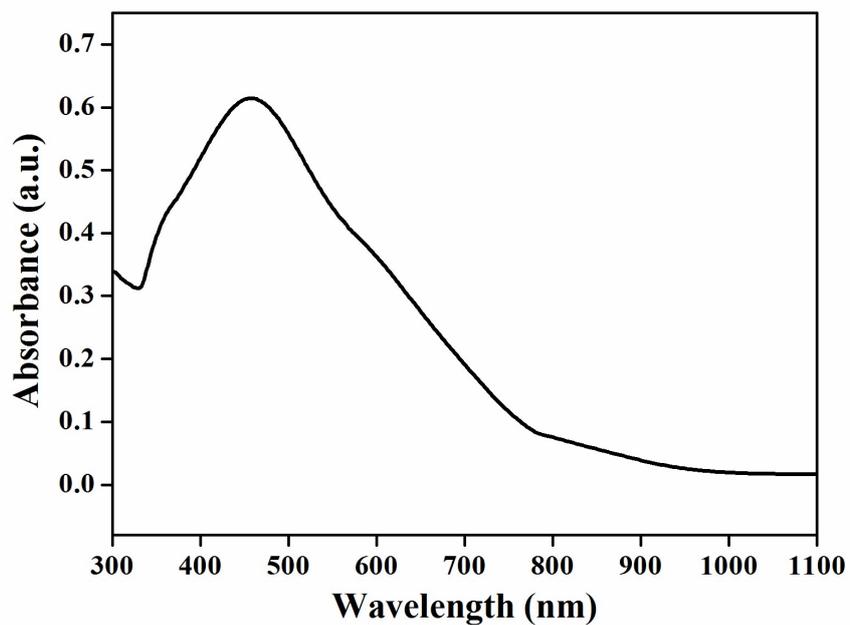


Fig. S2 UV-Vis-NIR absorbance spectrum of the AgNPs on the silanized fiber probe.

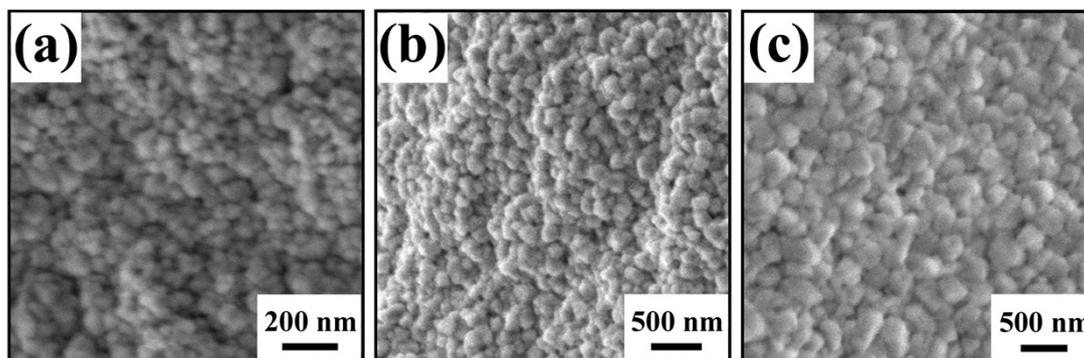


Fig. S3 (a-c) SEM images of the AgNPs on the silanized fiber probes prepared with different laser-induced times (10, 30, and 60 min, respectively).