

Supporting information

SERS Detection of Dopamine using Metal-Chelated Ag Nanoshell

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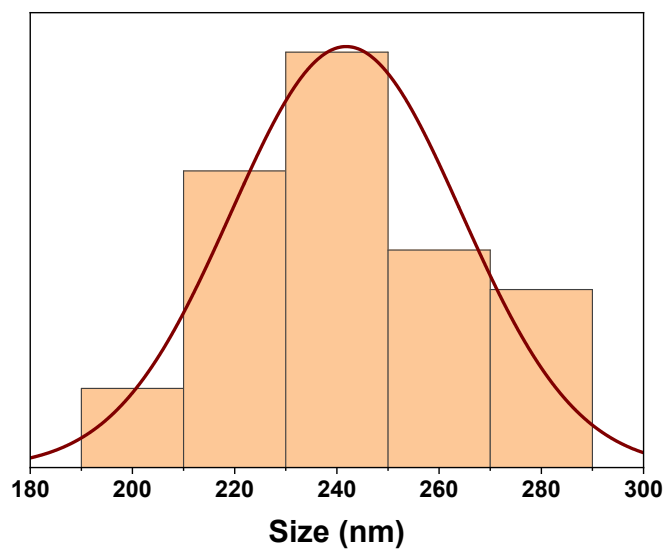


Fig. S1 Size distribution of AgNS with the average of 241 nm (SD : 22.5 nm)

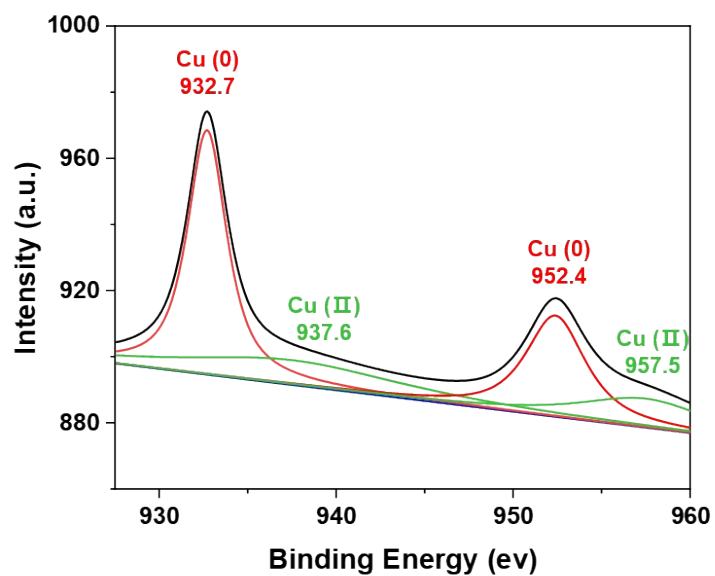


Fig. S2 XPS spectrum of AgNS@PVA@Cu. Red curves are corresponding to deconvoluted peaks of Cu (0), while green curves are corresponding to deconvoluted peaks of Cu (II).

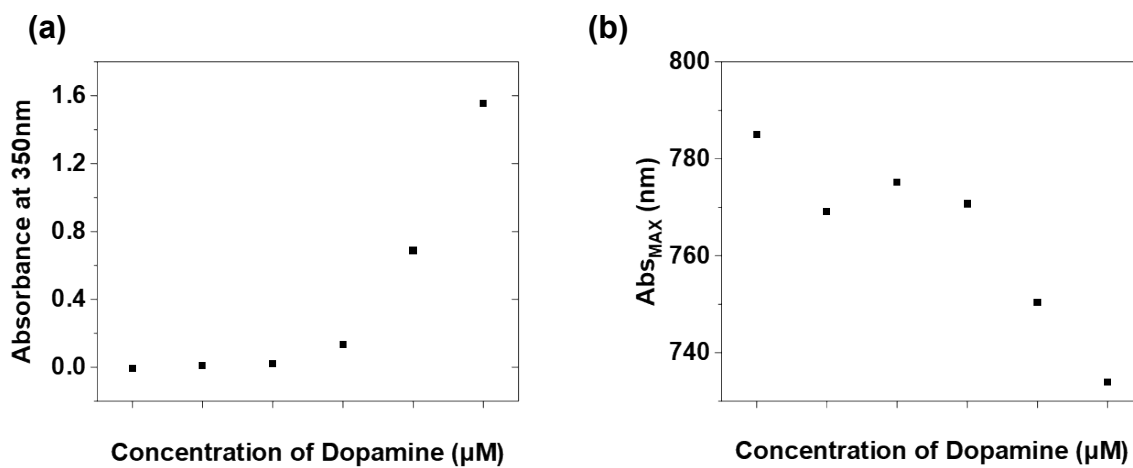


Figure S3. (a) Absorption intensity increasement at 350 nm (b) Decreasement of maximum peak position from 785 nm to 734 nm

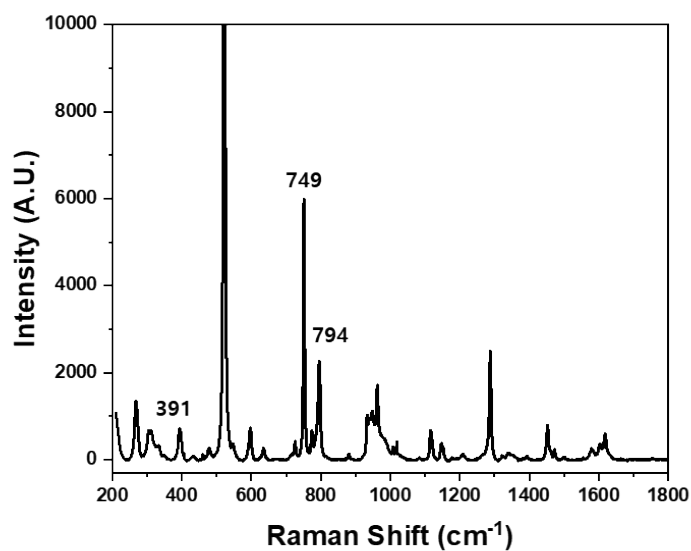


Figure S4. Normal raman spectrum of dopamine.

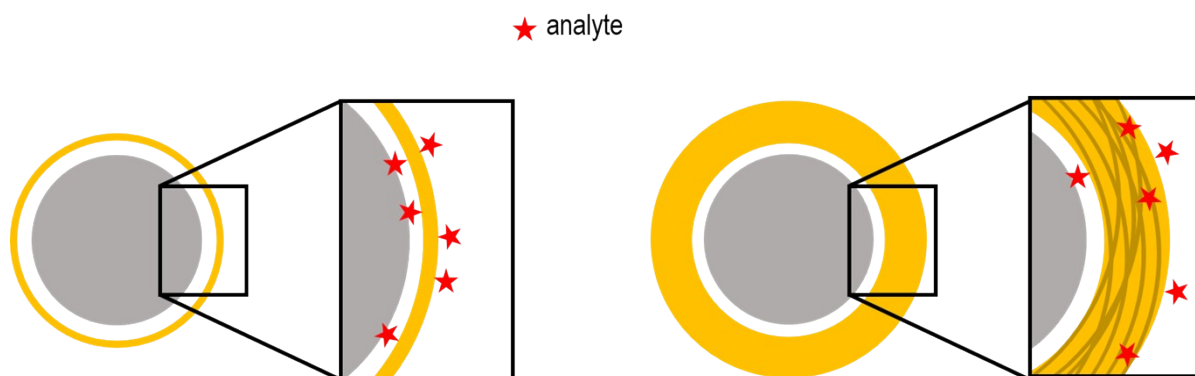


Fig. S5 Schematic illustration of effect of thickness of PVA polymer for detection.

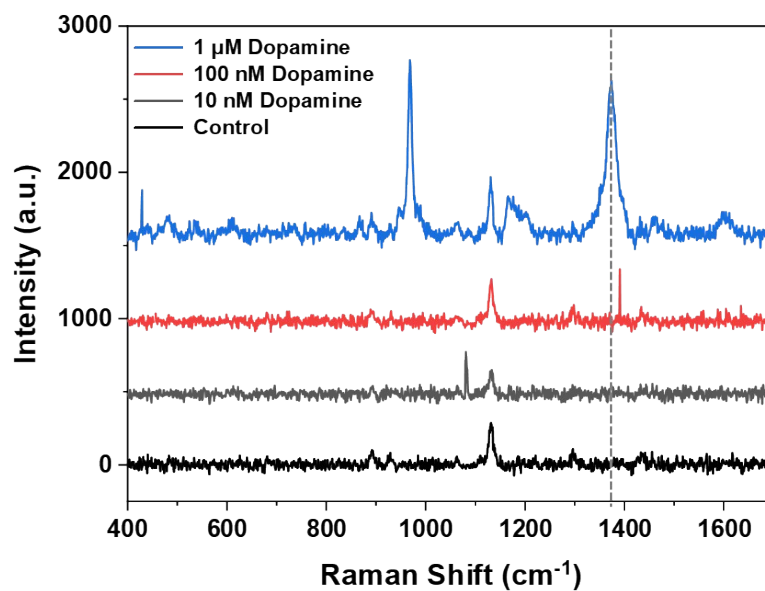


Fig. S6 Dopamine detection at low concentration with AgNS@PVA@Cu