

Article

Flexible HIV-1 Biosensor Based on the Au/MoS₂ Nanoparticles/Au Nanolayer on the PET Substrate

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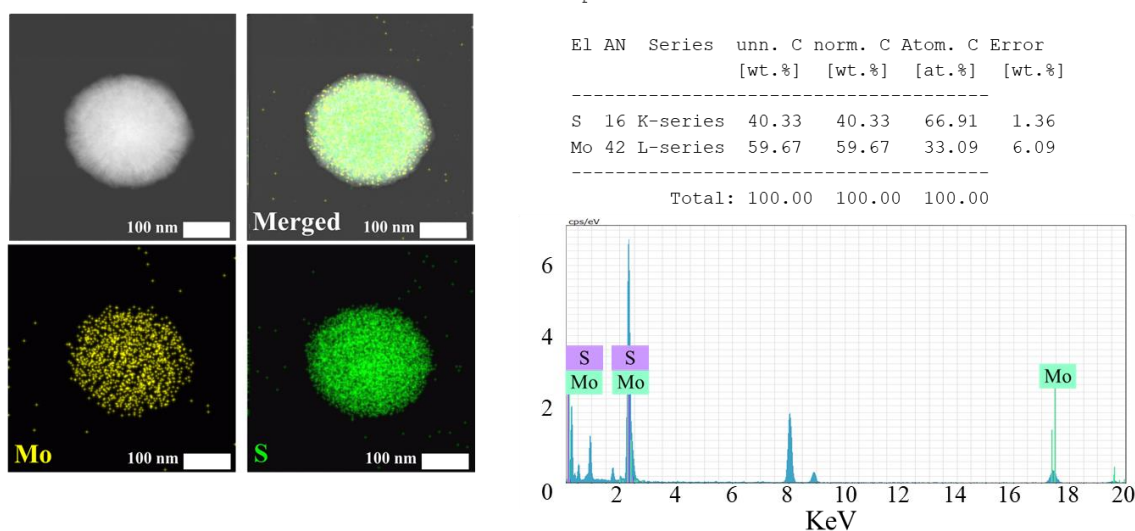


Figure S1. TEM and EDS analysis of MoS₂ NPs.

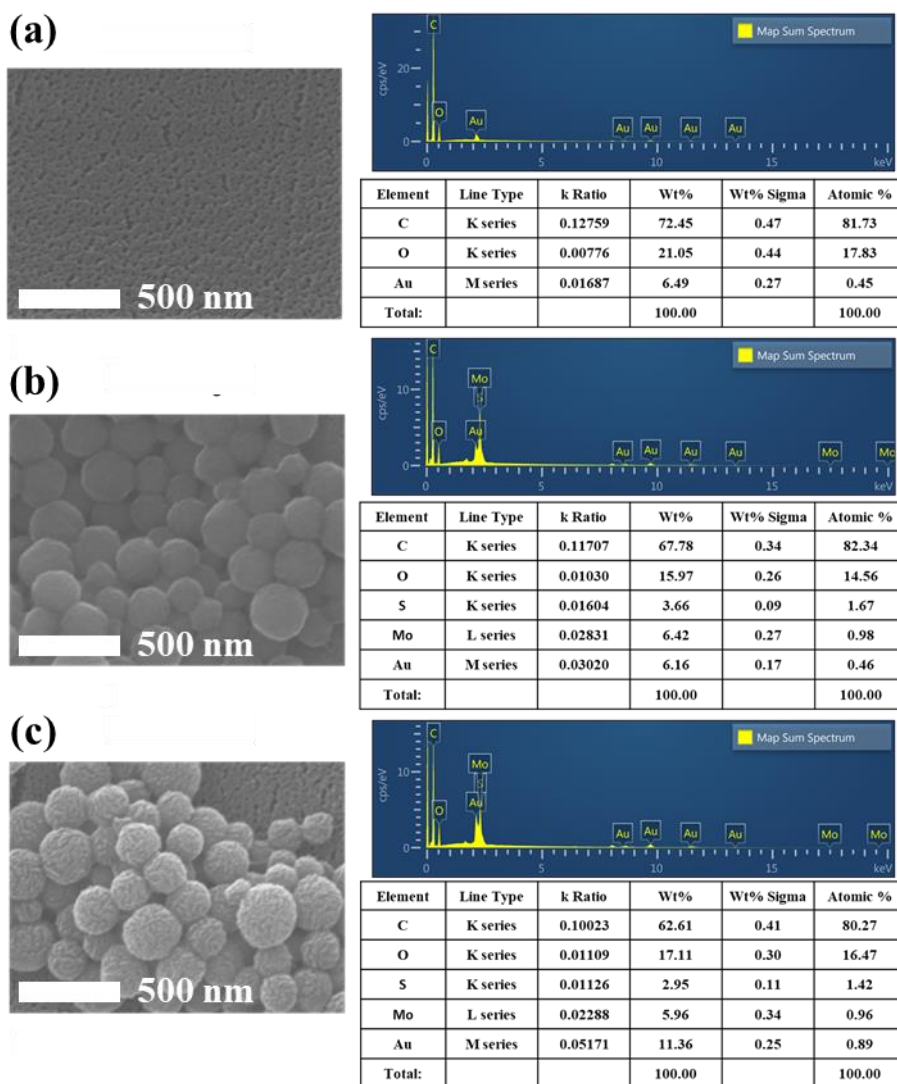


Figure S2. SEM and EDS analysis of (a) Au sputter-coated PET substrate, (b) the Au/MoS₂ on the PET substrate and (c) the Au/MoS₂/Au nanolayer on the PET substrate.

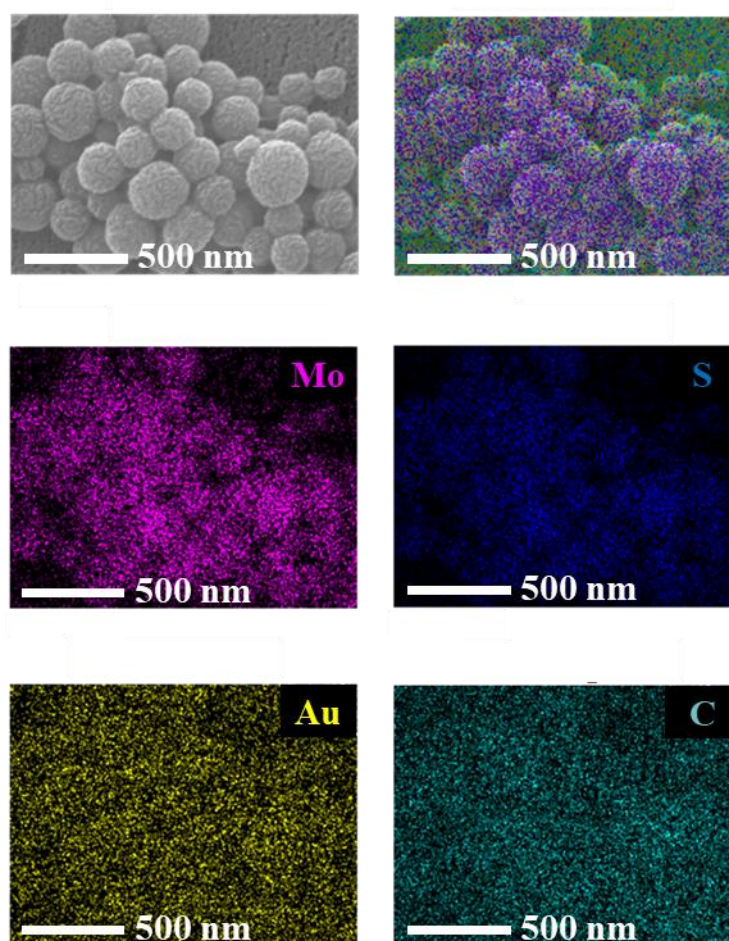


Figure S3. EDS mapping results of the Au/MoS₂/Au nanolayer on the PET substrate.

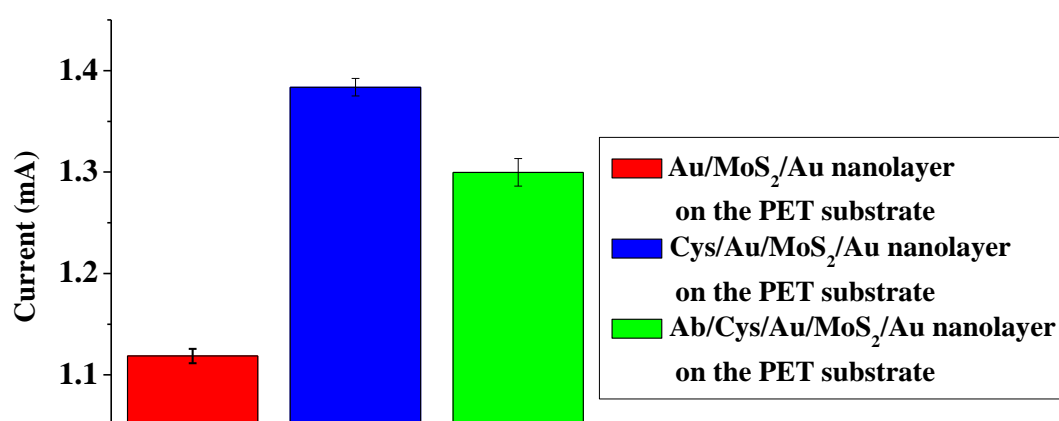


Figure S4. The reproducibility of reduction peaks of Au/MoS₂/Au nanolayer on the PET substrate, Cys/Au/MoS₂/Au nanolayer on the PET substrate and Ab/Cys/Au/MoS₂/Au nanolayer on the PET substrate. Error bars indicate the standard deviations of four different measurements.

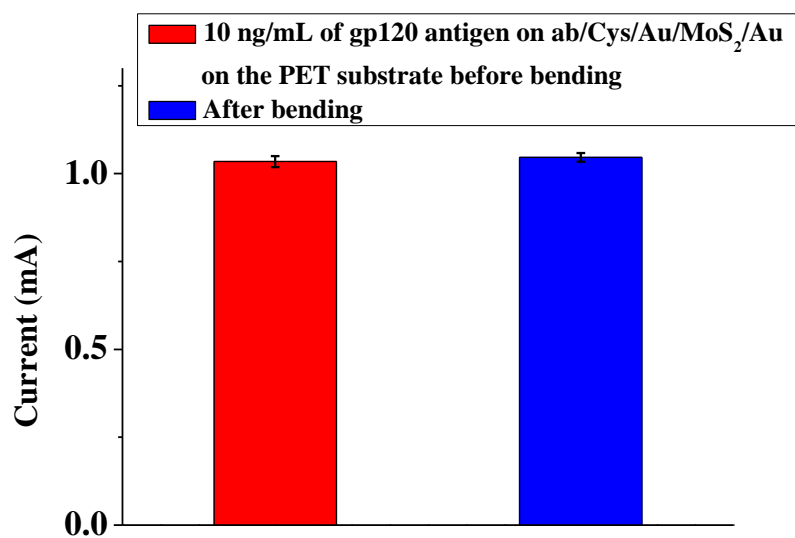


Figure S5. Reduction peak currents of the 10 ng/mL of gp120 antigen on Ab/Cys/Au/MoS₂/Au nanolayer on the PET substrate before bending and after bending. Error bars indicate the standard deviations of four different measurements.