

Electronic Supplementary Information (ESI)

Fluorescence nanosensor based on modified sustainable silica for highly sensitive detection of SARS-CoV-2 IgG antibody

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Table S1 Percentage of elements in the FSNP sample.

Element	wt%
Si	69.8
O	15
C	13.3
Cl	1.1
Na	0.8

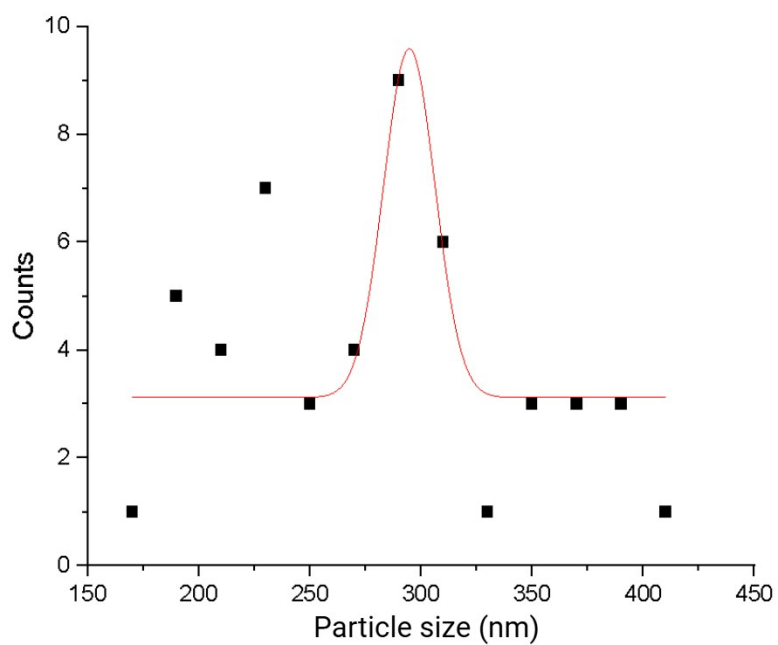


Fig. S1 Particle size distribution.

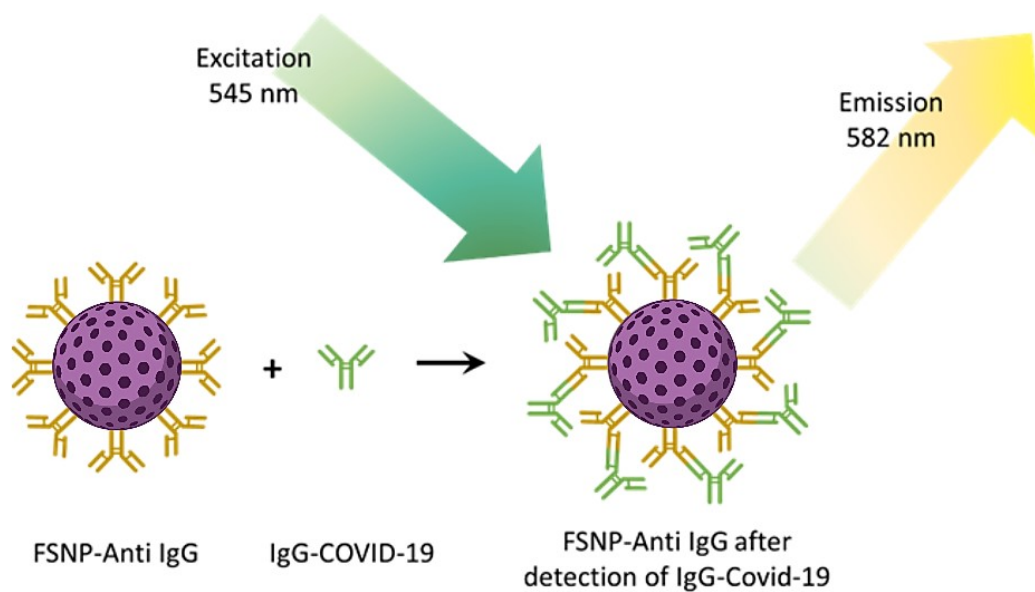


Fig. S2 The detection process of IgG through FSNP-anti IgG.

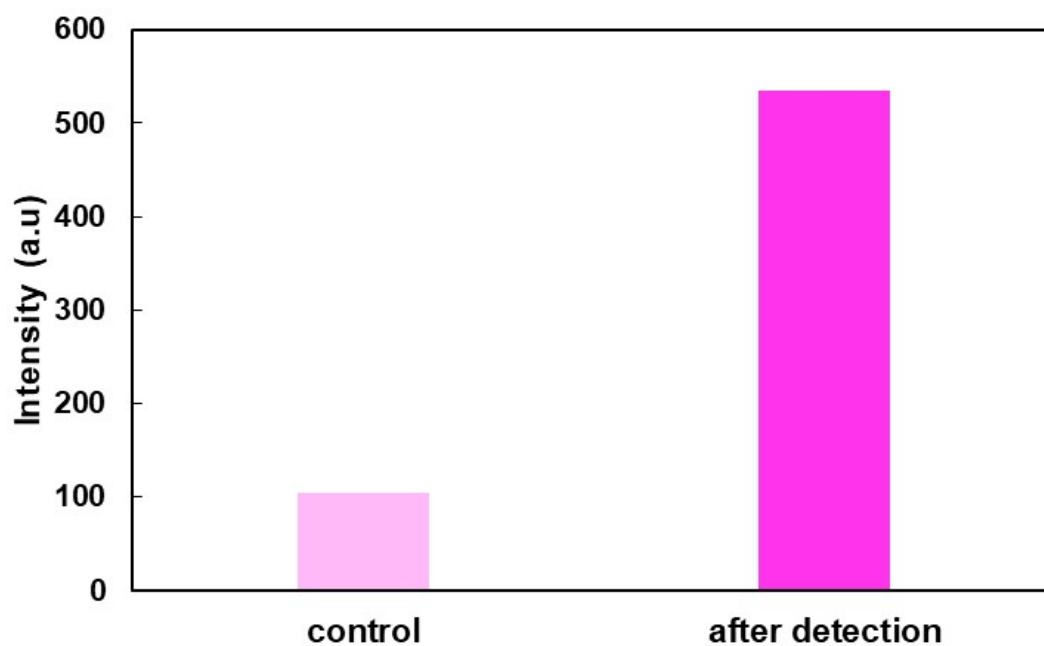


Fig. S3 The fluorescence intensity of FSNP-anti IgG in PBS solution (before detection) and FSNP-anti IgG in the presence of SARS-CoV-2 IgG antibody (after detection). The concentration of both samples was 0.5 $\mu\text{g}/\text{mL}$ with 15 minutes of incubation time measured with 545 nm excitation and 582 nm emission.