Supporting Information Available

Ratiometric fluorescent detection of silver ions using thioflavin T-based organic/inorganic hybrid suparparticles

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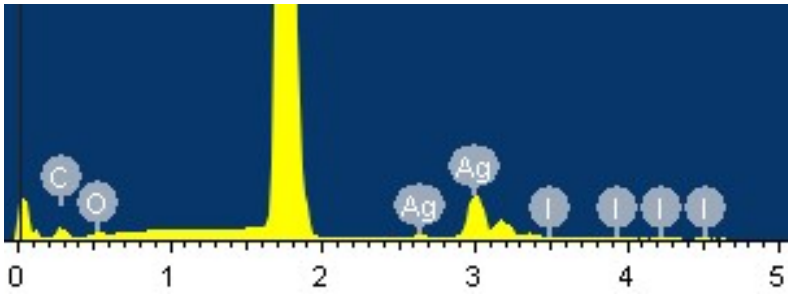

Figure S1. Energy-dispersive X-ray (EDX) spectra of AgI NPs.

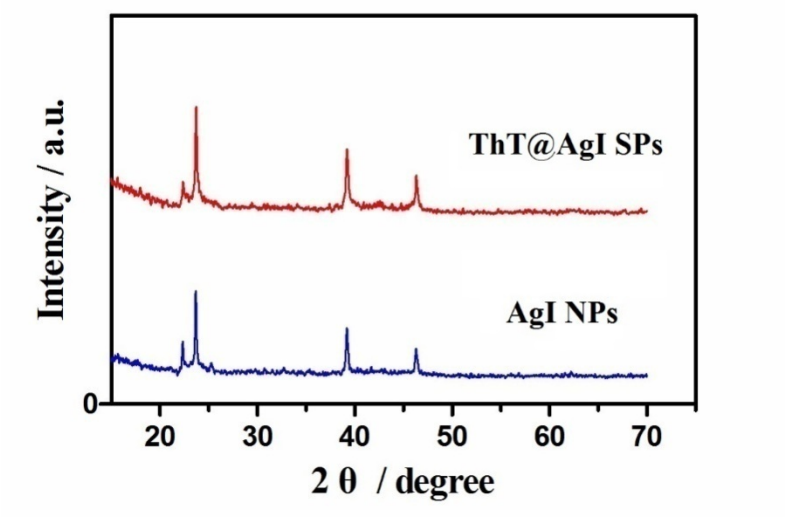

Figure S2. XRD patterns of ThT@AgISPs and AgI NPs.

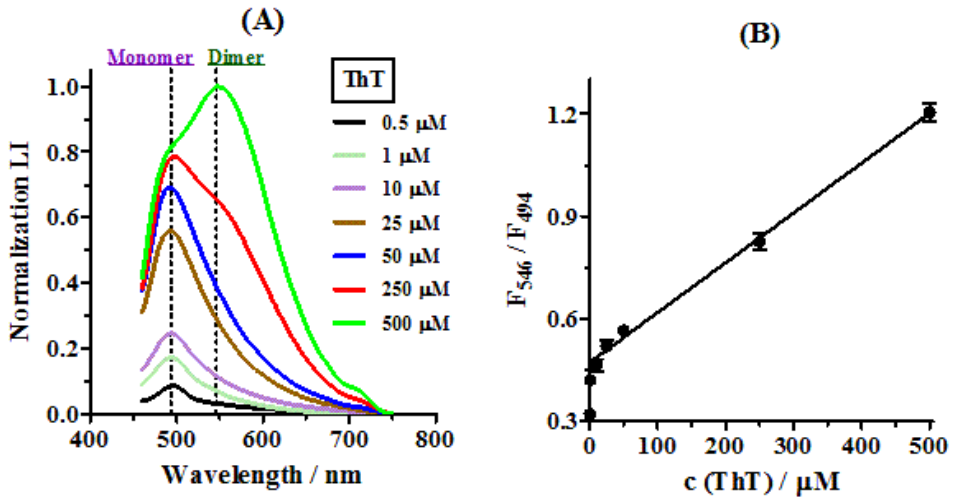

Figure S3. The fluorescence emission spectra are shown for ThT with varied concentrations.

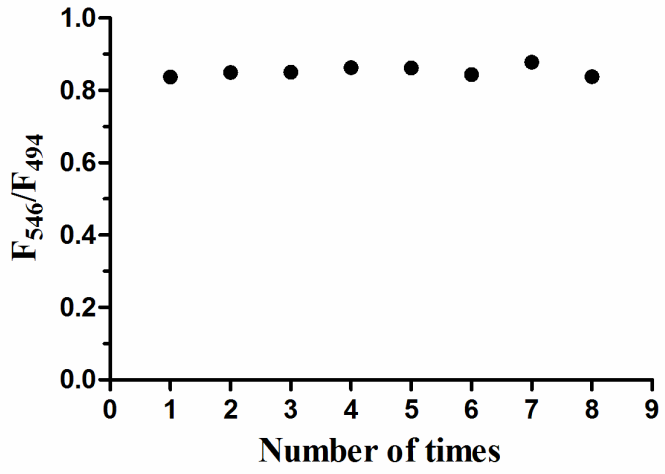

Figure S4. 8 repetitive measurements with 4 μM Ag^{+} was used for investigating the precision of ThT–I^{-} solution response

Table S1. The analytical performance of various Ag^+ sensors.

Fluorescent probes	LOD (nM)	Linear range (μM)	Ref.
Tetraphenylethylene-based sensor	874	0-80	1
Tricarbocyanine	200	0.5-20	2
Phenanthro[9,10-d] imidazole derivative	101	0-0.9	3
Quinoxaline-containing conjugated polymer	64	0.17-1	4
FAM-ssDNA/graphene oxide	50	0.1-10	5
DSAI/cytosine-rich DNA	155	0-4	6
Carbon nanodots	320	0-90	7
Thioflavin T-based organic/inorganic hybrid suparparticles	50	0.1-10	This work

Reference:

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Table S2. Detection of Ag^+ in water samples using the proposed method (n = 3).

Sample	Added/μM	Found/μM	Recovery (%)	RSD (%)
Tap water 1	0	ND	-	-
Tap water 2	2	2.19	109.71	4.77
Tap water 3	4	4.21	105.35	2.46
Tap water 4	6	6.31	105.21	5.5