

## Supporting Information

### **Colorimetric and ratiometric supramolecular AIE fluorescent probe for on-site monitoring fipronil**

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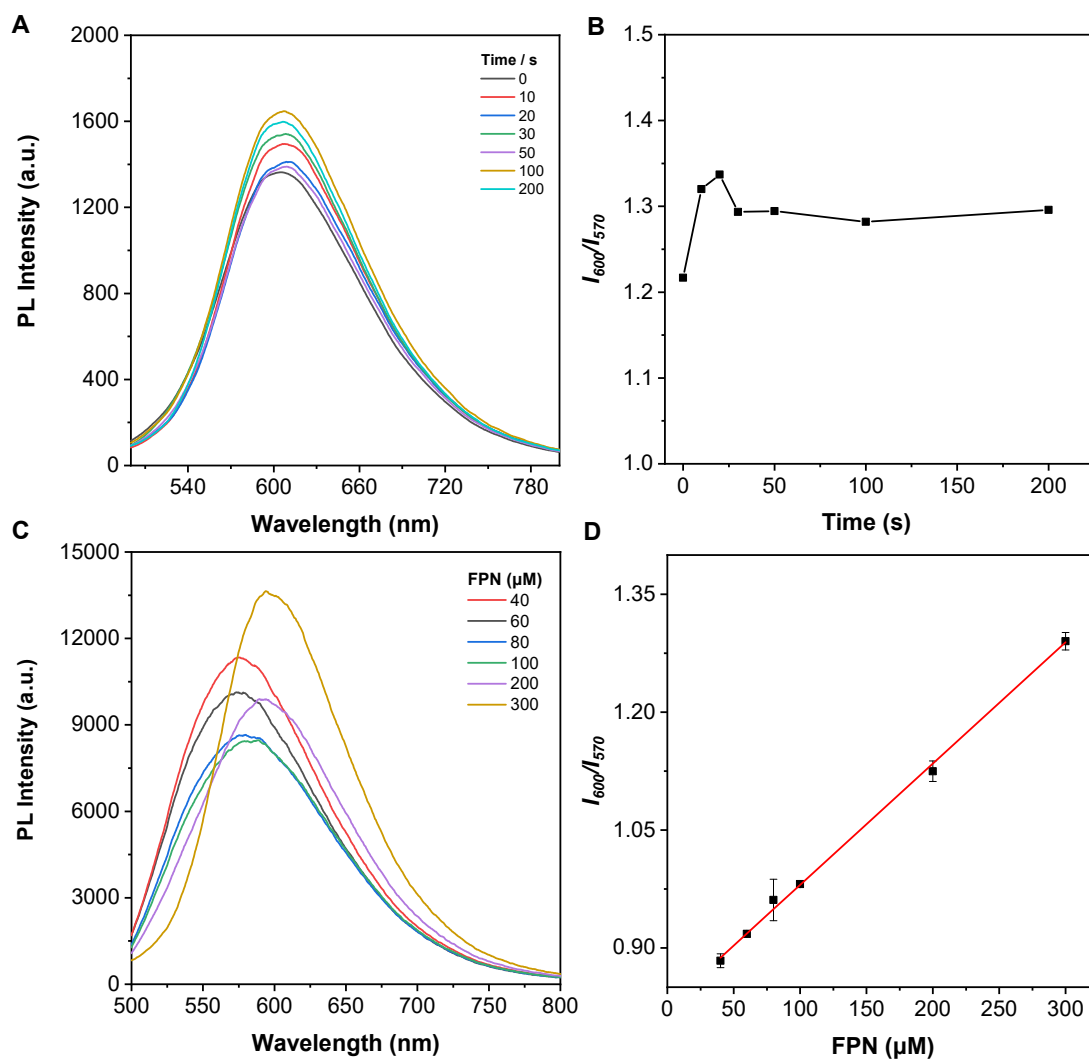
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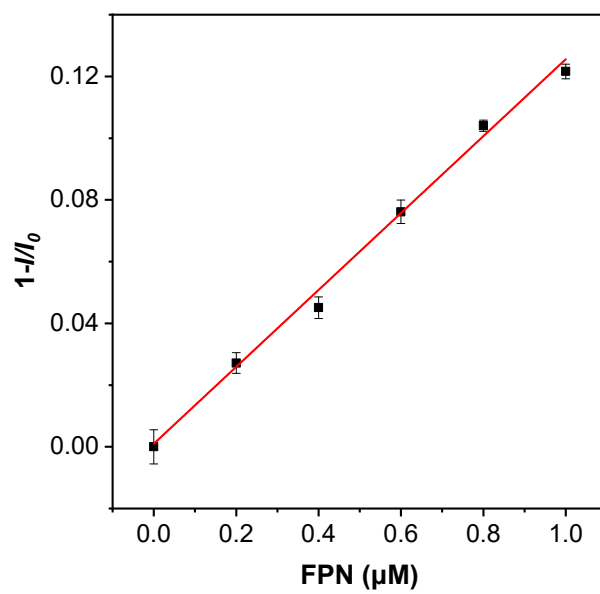
## **1. Materials and instruments**

All chemical reagents were obtained from J&K Scientific and were used without further purification. Fluorescence spectra were obtained using a Horiba Duetta spectrofluorimeter with a 10 mm quartz cuvette. UV-vis absorption spectra were recorded on a UV-1800 UV-Visible spectrophotometer. Dynamic light scattering (DLS) experiments were studied on a Nano Size Particle Analyzer equipped with (ZEN 3600 MALVERN). The fluorescent images were captured on a camera. The RGB values were determined by the ImageJ software.

## 2. Supplementary figures



**Fig. S1** The time-dependent changes in (A) fluorescence spectra and (B) intensity ratio ( $I_{600}/I_{570}$ ) of LIQ-TPA-TZ@HSA in the presence of FPN (500  $\mu\text{M}$ ) in PBS buffer. The concentration-dependent changes in (C) fluorescent spectra and (D) intensity ratio ( $I_{600}/I_{570}$ ) of LIQ-TPA-TZ@HSA titrated by different concentrations of FPN (40-300  $\mu\text{M}$ ) in PBS buffer.



**Fig. S2** The fluorescent titration spectra of LIQ-TPA-TZ@HSA with FPN concentration from 0 to 1  $\mu\text{M}$ .