

Analytical Methods

Electronic Supplementary Material

**Construction of red-emitting QDs probes and determination of
indole-propionic acid binding sites in plant tissues**

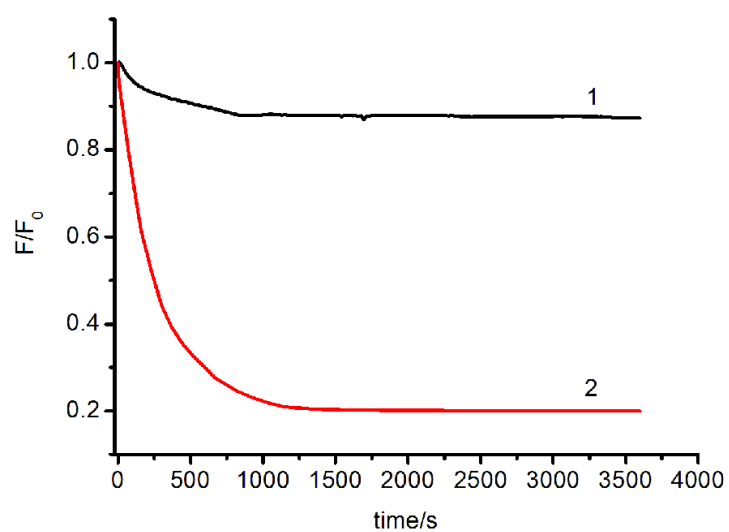


Fig. S1 Comparison of resistant ability to photobleaching between CdTe/ZnS QDs and FITC. 1. CdTe/ZnS QDs; 2. FITC

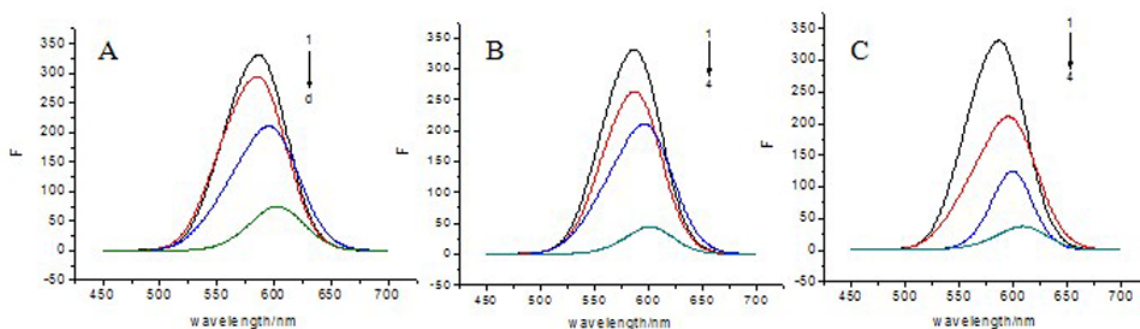


Fig. S2 Fluorescence spectra before and after coupling reaction. curve 1: CdTe/ZnS QDs; curve 2 to 4: (A) molar ratio of MPA:EDC:IPA: 1:0.05:0.05, 1:0.1:0.1, and 1:0.2:0.2; (B) reaction temperature: 32°C, 37°C, and 42°C; (C) reaction time: 30 min, 45 min, and 60 min.

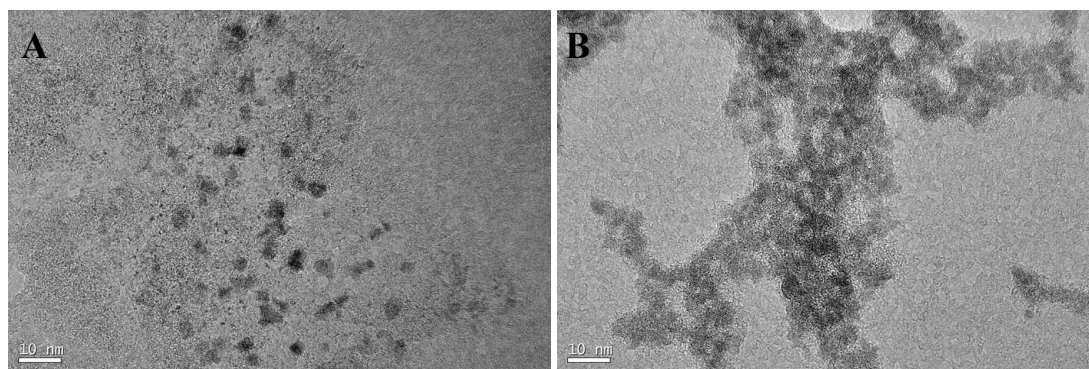


Fig. S3 TEM characterization before and after the coupling reaction. A. CdTe/ZnS QDs; B. CdTe/ZnS-IPA.