

Supporting Information

α -Amylase lighted aggregation-induced emission luminogens based self-healing hydrogels

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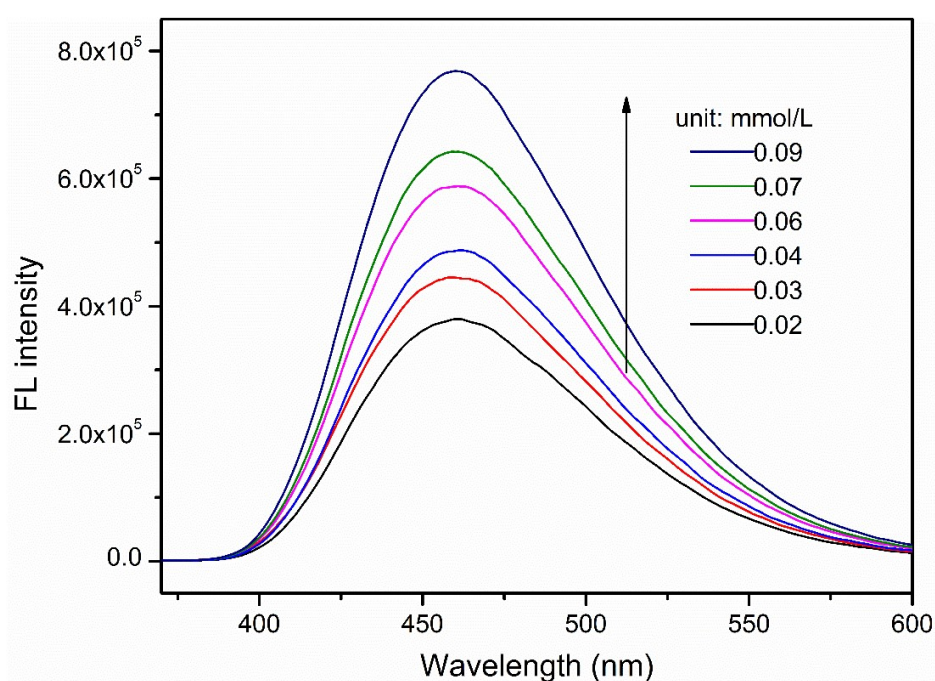


Figure S1. Fluorescence intensity changes ($\lambda_{\text{ex}} = 320 \text{ nm}$) of various PLGA-TPE concentrations from 0.02 to 0.09 mmol/L in water at room temperature.

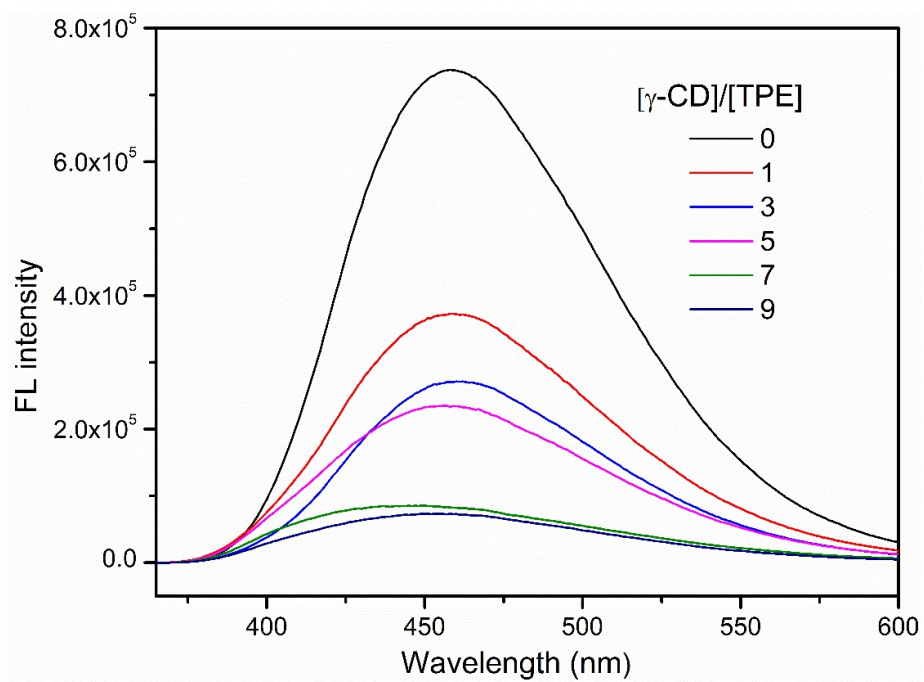


Figure S2. Fluorescence emission ($\lambda_{\text{ex}} = 320 \text{ nm}$) of PLGA-TPE in the presence of different molar ratios of Ac- γ -CD to TPE units ($[\text{TPE}] = 0.09 \text{ mmol/L}$) at room temperature for 24 h.

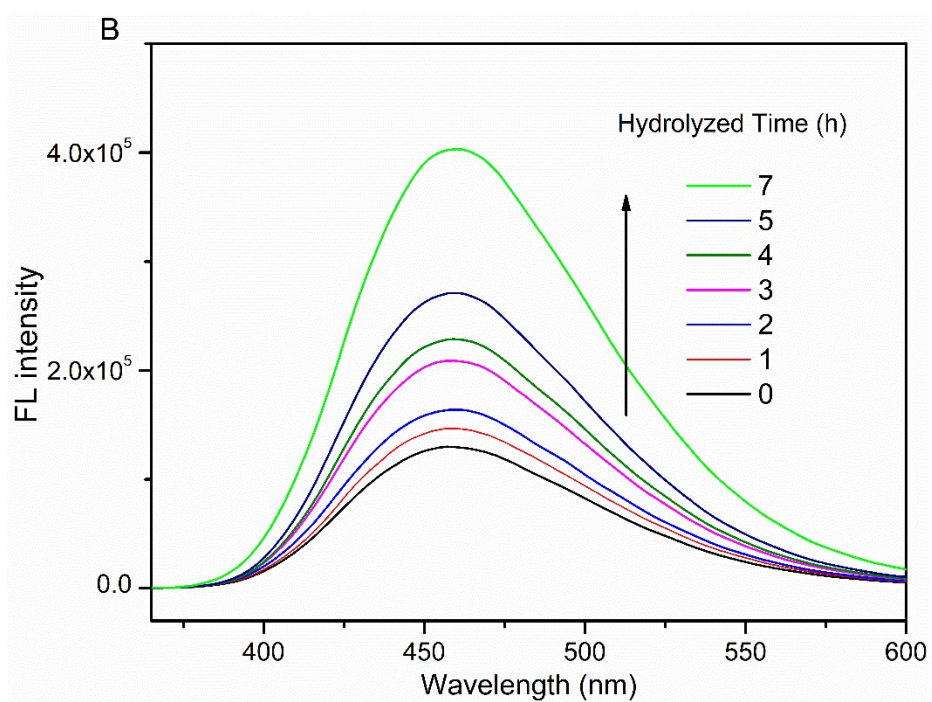
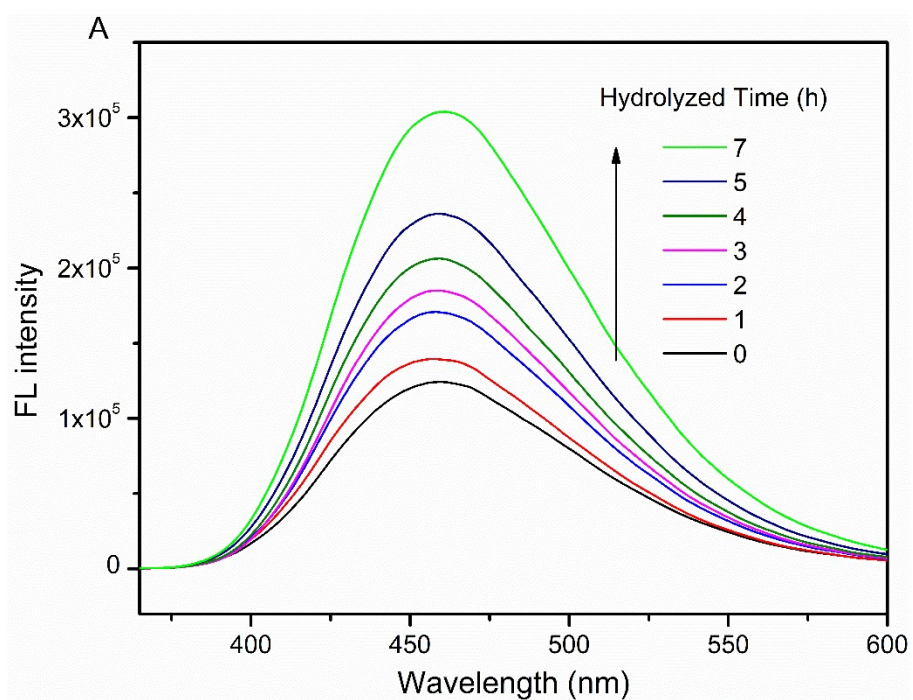


Figure S3. Fluorescence spectra of DN hydrogel with different incubate time in the presence of 0.5 U/mL (A), 1 U/mL (B) α -amylase buffer (0.1 mM MES buffer, pH 6.0).

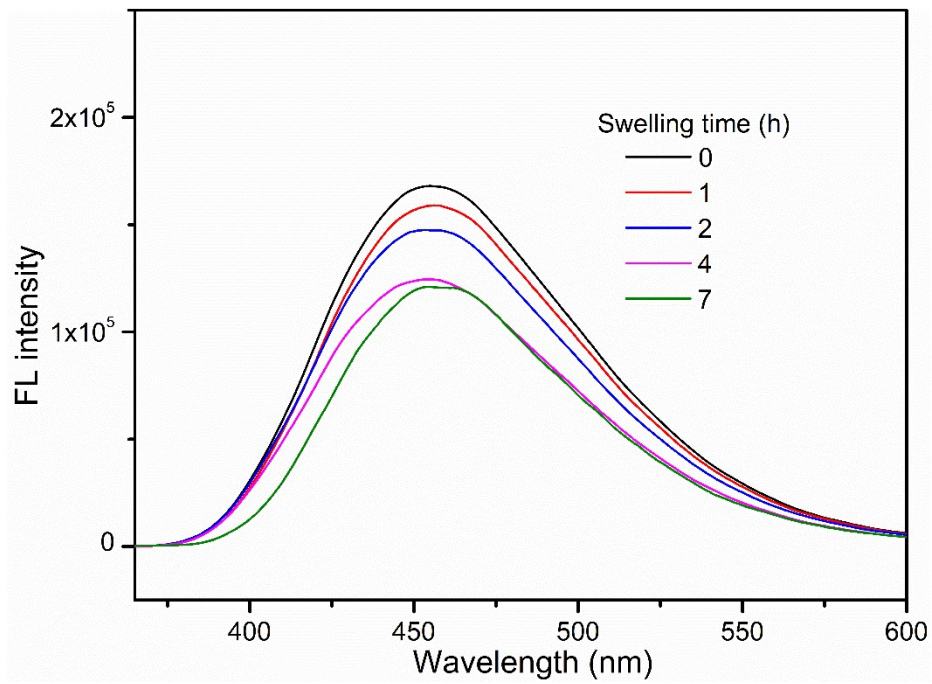


Figure S4. Fluorescence emission ($\lambda_{\text{ex}} = 320 \text{ nm}$) of DN hydrogel in the presence of different swelling time in water.