Electronic Support Information

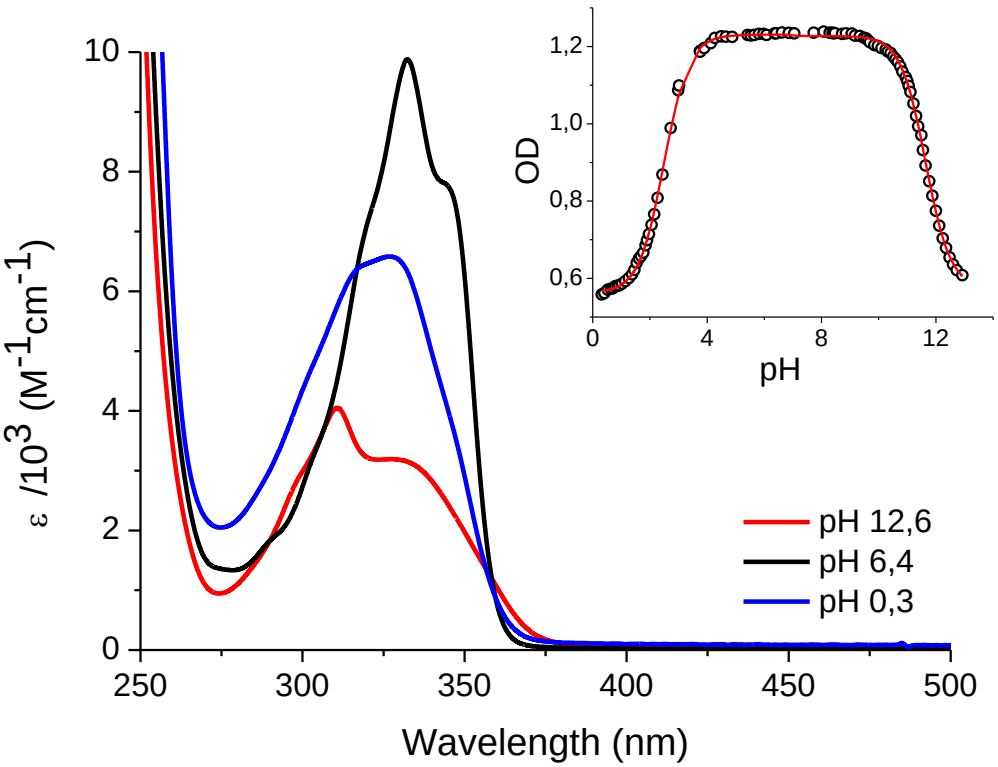

Figure S1. KNA absorption spectra at various pH values. Inset: the titration curve obtained by the absorption at 345 nm; smooth red line: the best fit.

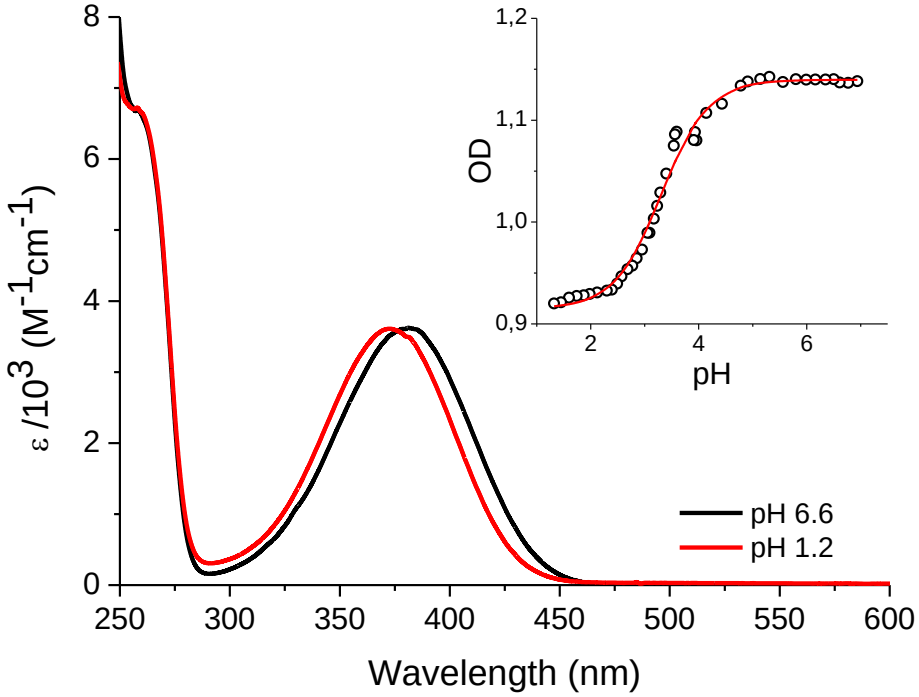

Figure S2. KNY absorption spectra at various pH values. Inset: the titration curve obtained by the absorbance at 400 nm; smooth red line: the best fit.

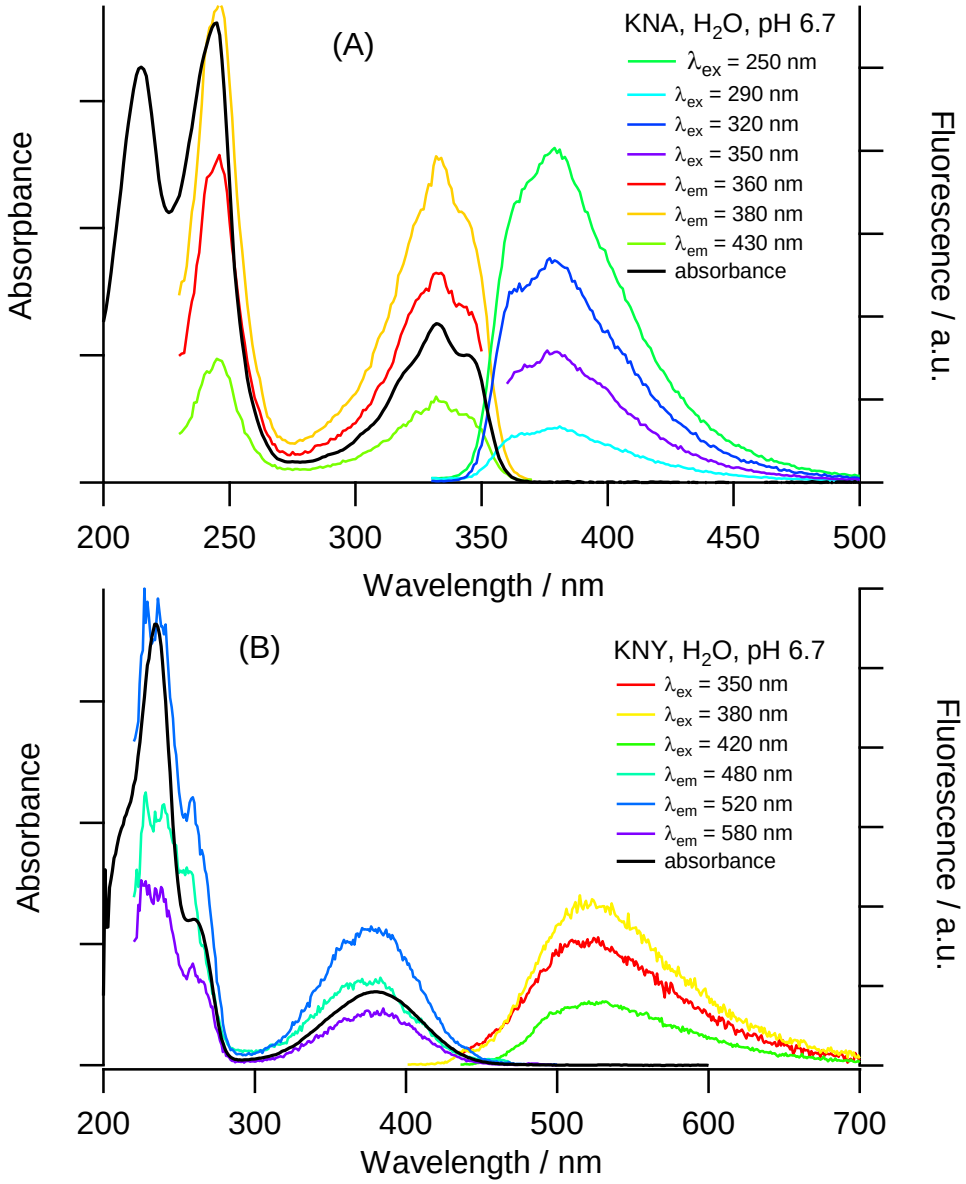

Figure S3. Absorption and fluorescence emission and excitation spectra recorded with (A) KNA and (B) KNY in aqueous solution, pH 6.7 at various excitation and emission wavelengths.

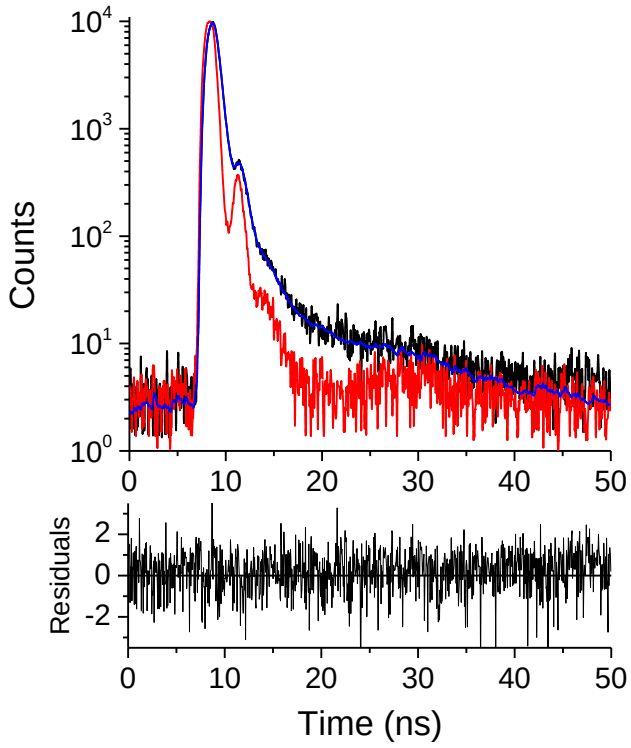

Figure S4. Fluorescence time profiles recorded with KNY in H_2O (pH 6.7, excitation at 375 nm, detection at 510 nm). Black line – fluorescence time profile; red line – instrument response function; blue line – bi-exponential fit convolved with IRF.

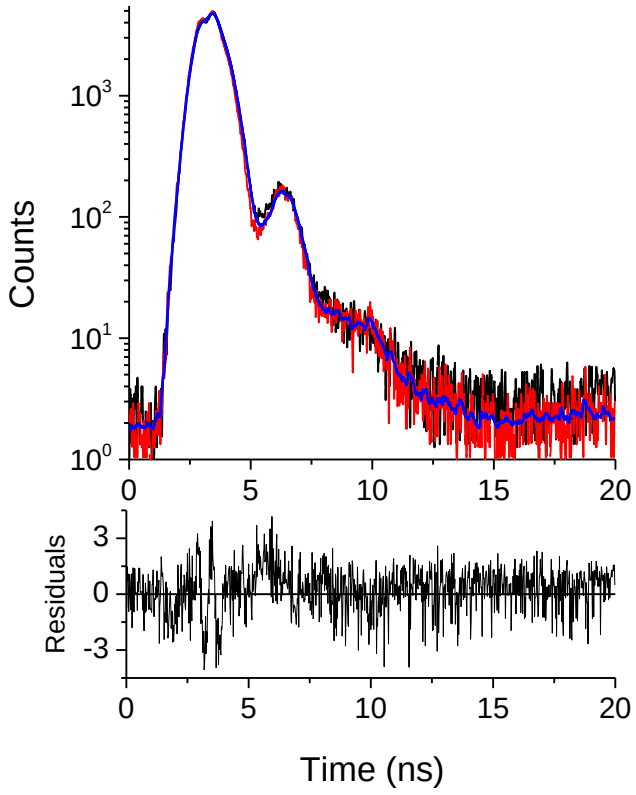

Figure S5. Fluorescence time profiles recorded with KNA in H_2O (pH 6.7, excitation at 330 nm, detection at 380 nm). Black line – fluorescence time profile; red line – instrument response function; blue line – exponential fit convolved with IRF.

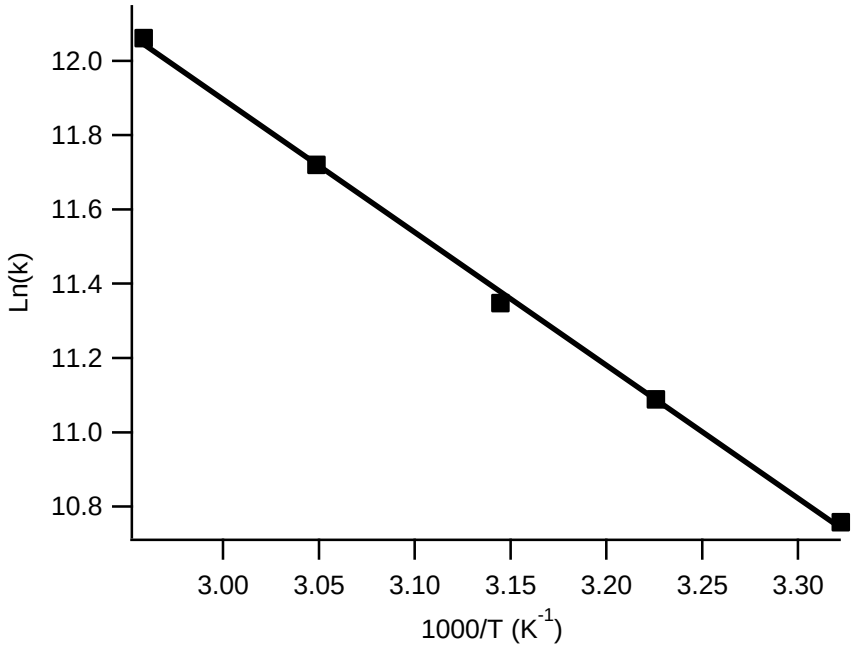

Figure S6. Linear plot of Ln(k) versus 1000/T for KNY aqueous solution.

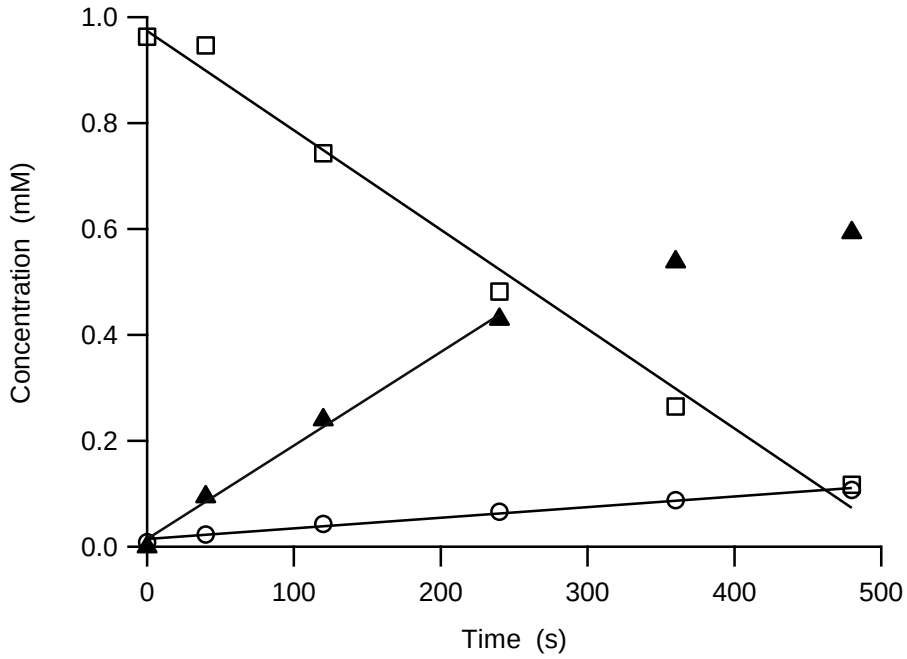

Figure S7. Kinetics of anaerobic decomposition of 3.4×10^{-4} M KNY in presence of 1.4 M acetone in buffered solution, pH 7.2, under irradiation by laser pulses at 308 nm with energy 0.5 mJ/pulse with repetition rate 5 Hz: KNY (squares), DHQN (triangles), 4HQN (circles)