

Supporting Information for

Fluorescence Origin and Spectral Broadening mechanism in Atomically Precise Au₈ Nanoclusters

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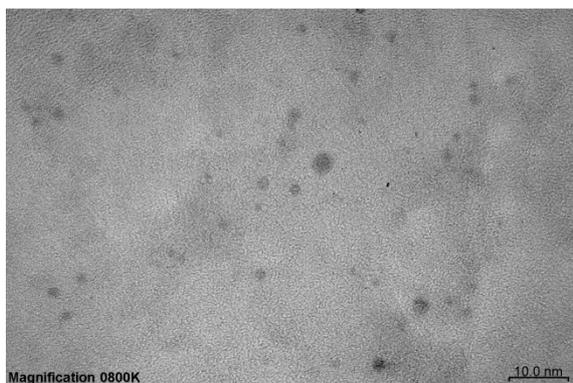


Fig. S1: Transmission electron microscopy (TEM) image of Au₈@BSA nanoclusters.

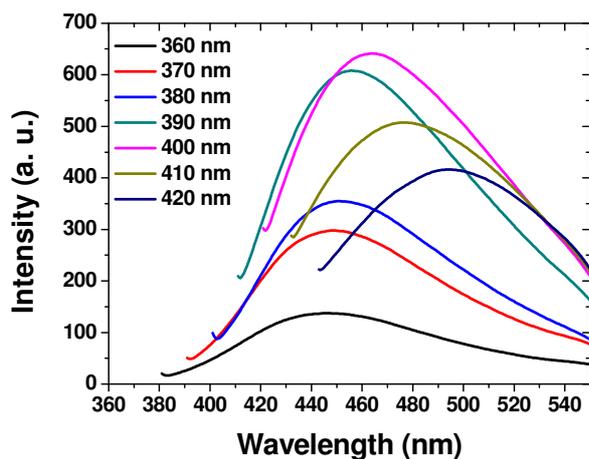


Fig. S2. Fluorescence spectra of Au₈@BSA NCs with various excitation wavelengths.

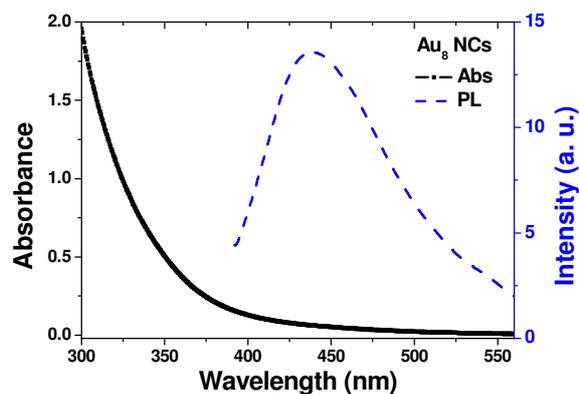


Fig. S3. Absorption and fluorescence spectra of Au₈@BSA NCs in solution.

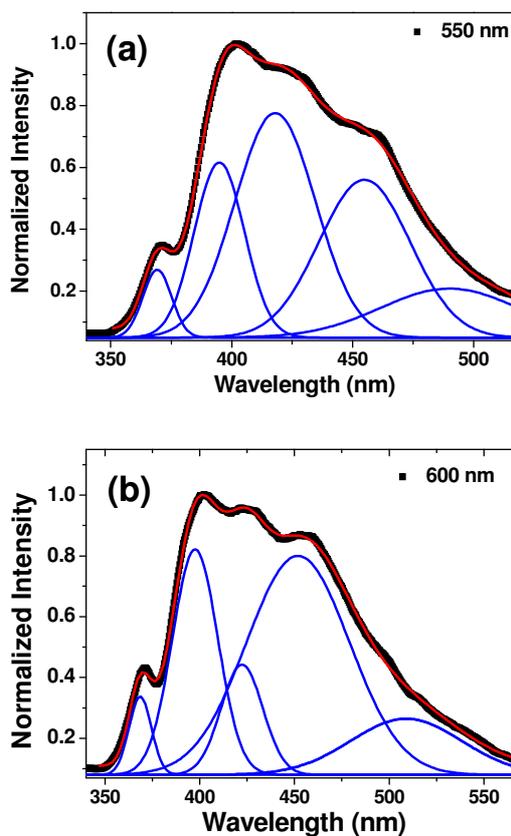


Fig. S4. The PLE spectra of Au₈@BSA and five-Gaussian fitting at (a) 550 and (b) 600 nm.

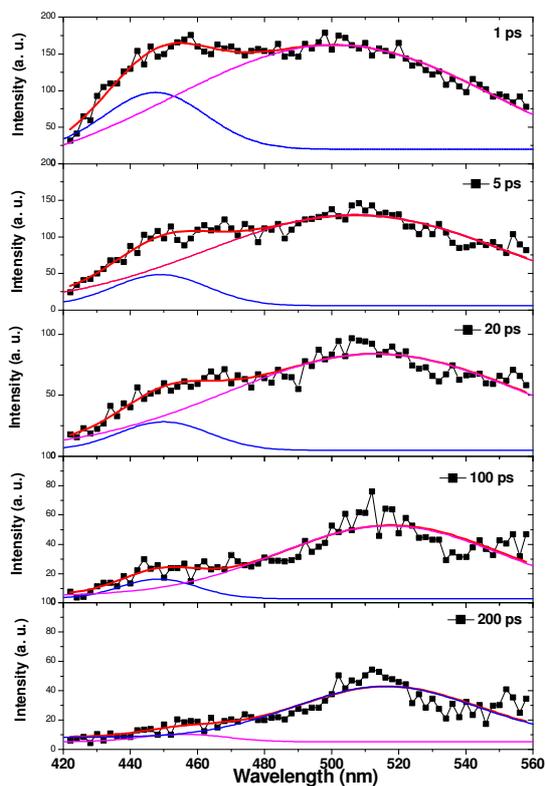


Fig.S5 Time-resolved fluorescence spectra and two Gaussian fittings at various time delays.

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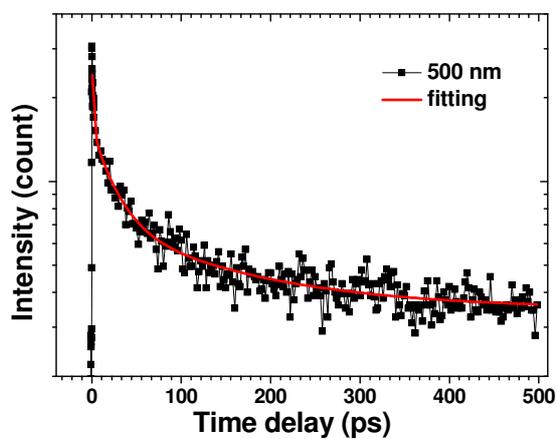
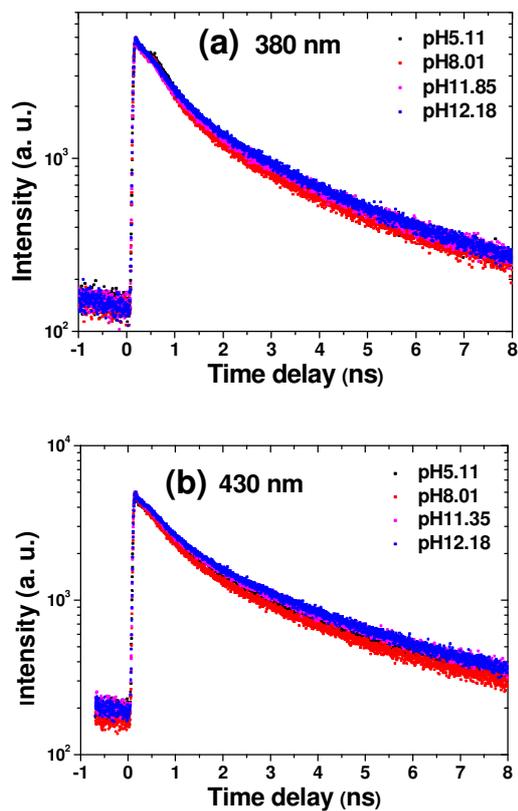


Fig. S6. The observed fluorescence time trace at 500 nm. The red
10 curve is fitting by a three-exponential function.



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Fig. S7 The observed nanosecond fluorescence time trace of
Au₈@BSA NCs for different pH with excitation of (a) 380 nm
and (b) 430 nm.

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