

Supporting Information

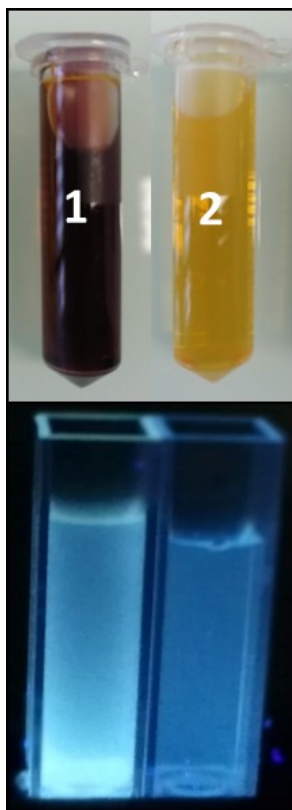


Figure SI-1: Comparison under daylight and 365 nm UV irradiation of two colloidal suspensions made by one-step alkali-assisted ultrasonic treatment with different ultrasonic power: 1) 100% power = 750 W (our work) and 2) 20% = 150 W.¹

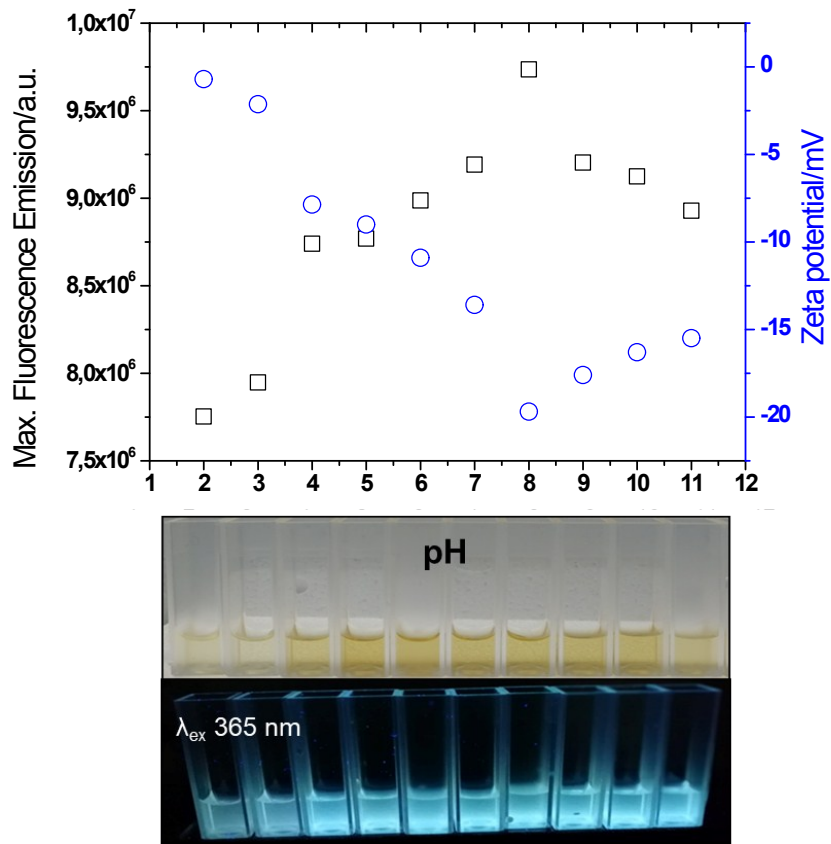


Figure SI-2: Zeta potential and fluorescence emission intensity of CDs at pH 2 to 11. Insets: CD suspensions at different pHs under daylight and 365 nm UV irradiation.

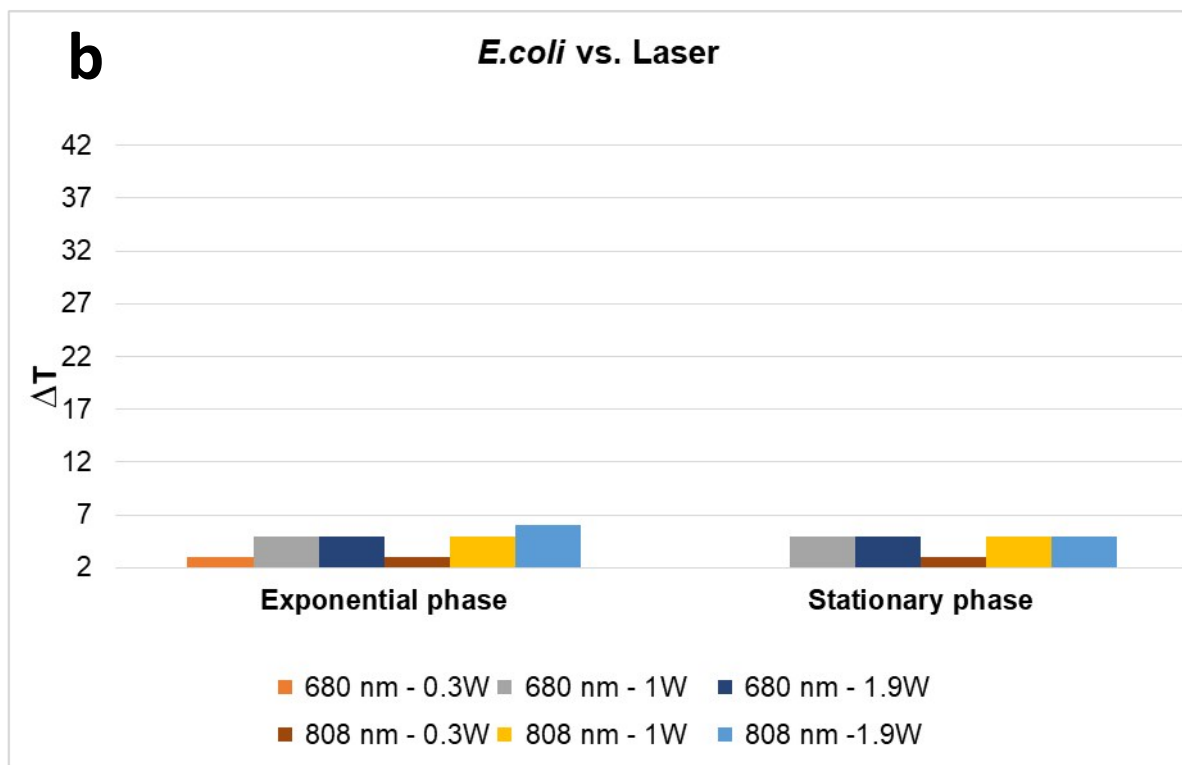
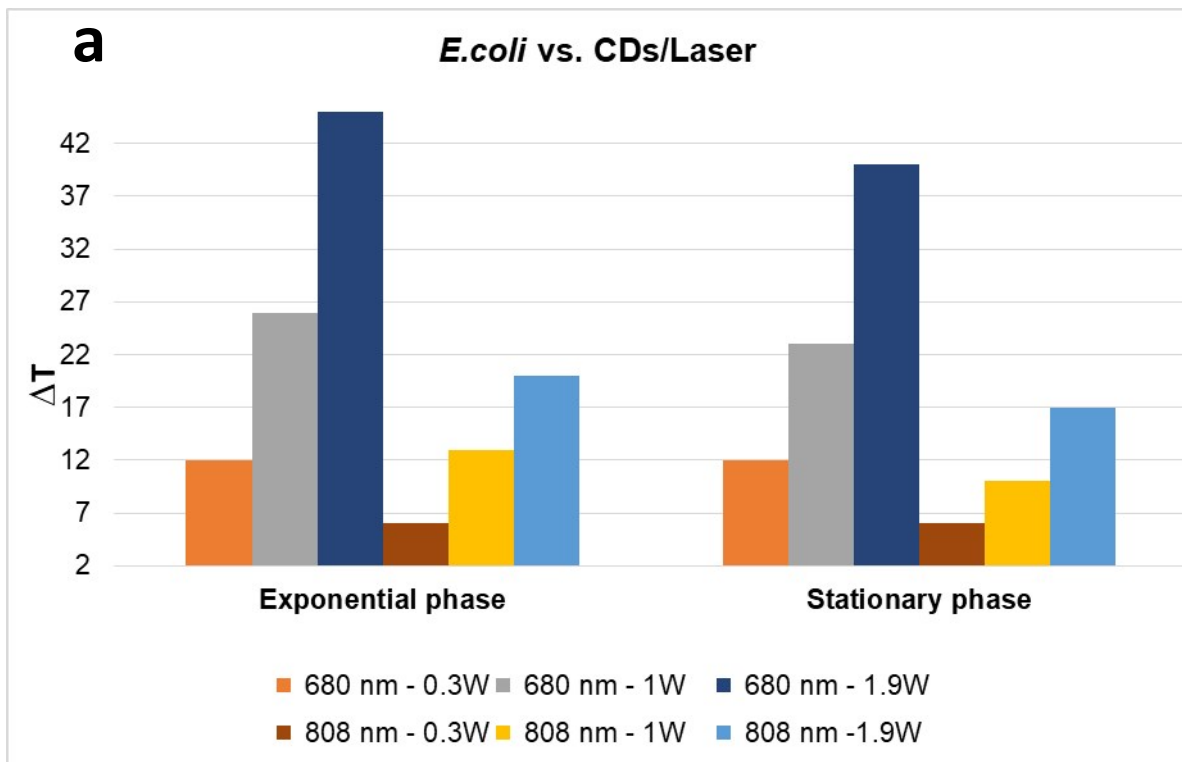


Figure SI-3: ΔT values in PT mode under 808 and 680 nm laser (power densities: 0.3, 1, and 1.9 W cm^{-2}) measured in exponential and stationary phase of *E. coli*: a) with CDs; b) without CDs.

Video SI-1



CDs8-blinking2.avi

Video SI-2

(see attached video)