

Schematic of Lab-built LIF (Laser Induced Fluorescence) Microscope System

<Supplementary Fig 1>



473nm DPSS Diode Laser off (with interference filter)

473nm DPSS Diode Laser on (with interference filter)

LIFM images of FITC core-shell silica nanoparticles synthesized at 80°C

<Supplementary Fig 2>



<Supplementary Fig 3> Change of fluorescence intensity (FITC doped core-shell silica nanoparticles) with Hg concentration



<Supplementary Fig 4> Effect of hydrated ionic radius on fluorescence quenching