Supporting information

Multifunctional superparamagnetic nanoshells: combining two-photon luminescence imaging, surface-enhanced Raman scattering and magnetic separation

Xiulong Jin,[†] Haiyan Li,[†] Shanshan Wang,[†] Ni Kong,[†] Hong Xu,[†] Qihua Fu,[‡]

Hongchen Gu,[†] and Jian Ye[†,]*

[†]Shanghai Engineering Research Center of Medical Device and Technology at Med-X, School of Biomedical Engineering, Shanghai Jiao Tong University, 1954 Huashan Road, Shanghai, 200030, China;

[‡]Department of Laboratory Medicine, Shanghai Children's Medical Center & School of Medicine, Shanghai Jiao Tong University, Shanghai, 200127, China

[*] To whom correspondence should be addressed. E-mail: yejian78@sjtu.edu.cn
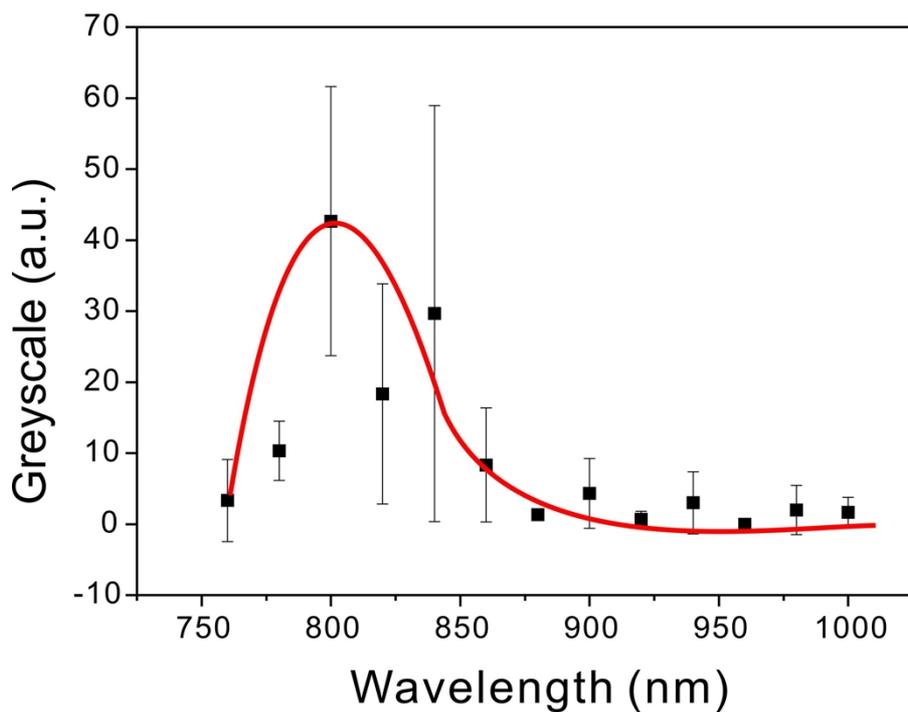
Figure S1. Dependence plot of TPL intensity on the pulse laser excitation wavelength. Red line is only for visual guidance.
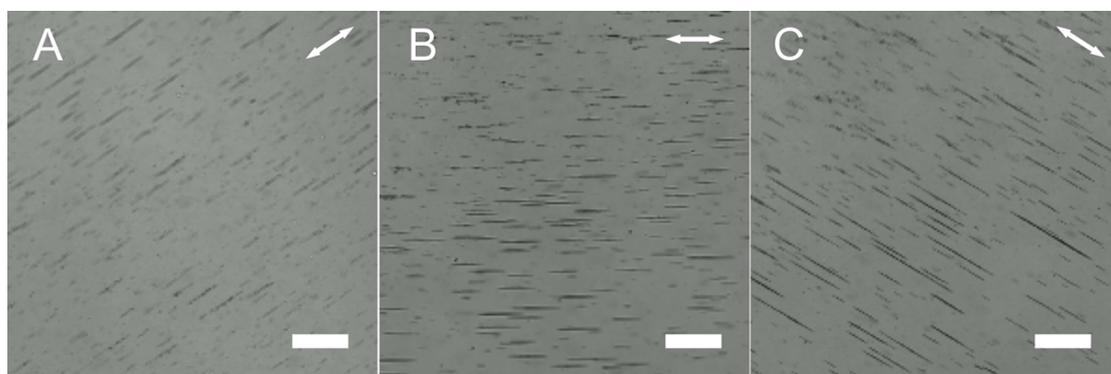

Figure S2. Transmission images of 4-MBA labeled $Fe_3O_4@SiO_2@Au$ nanoparticle chains self-assembled under an external magnetic field along different directions. The white double-arrow symbol in each panel indicates the direction of the magnetic field. All scale bars are 50 μm.