Supporting Information

Single-Phase $Dy_2O_3:Tb^{3+}$ Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging

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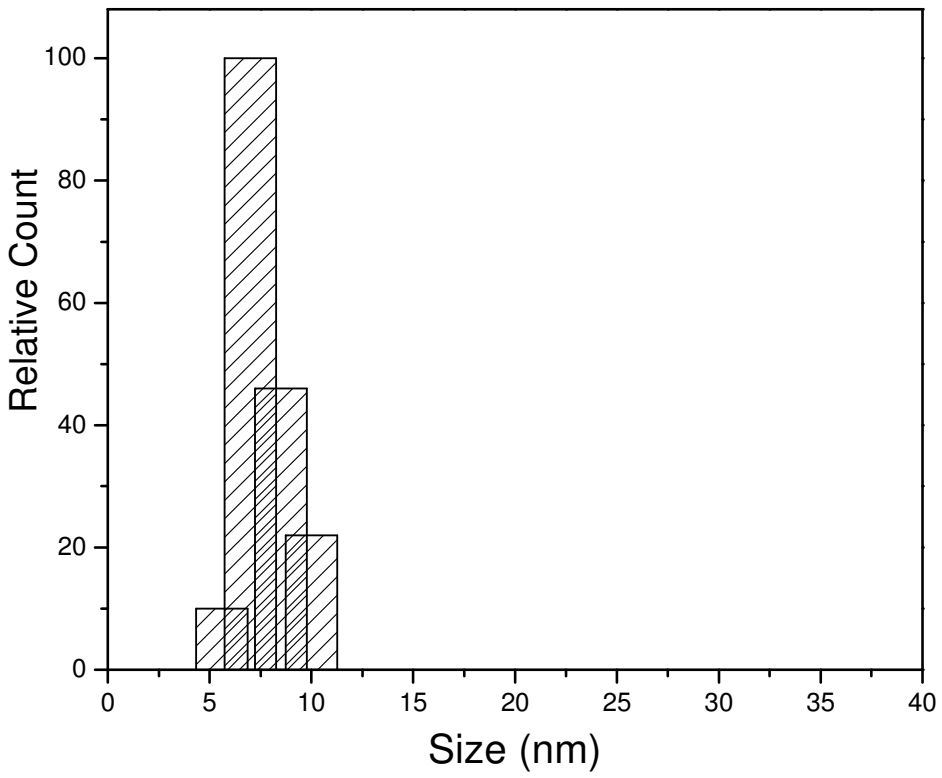
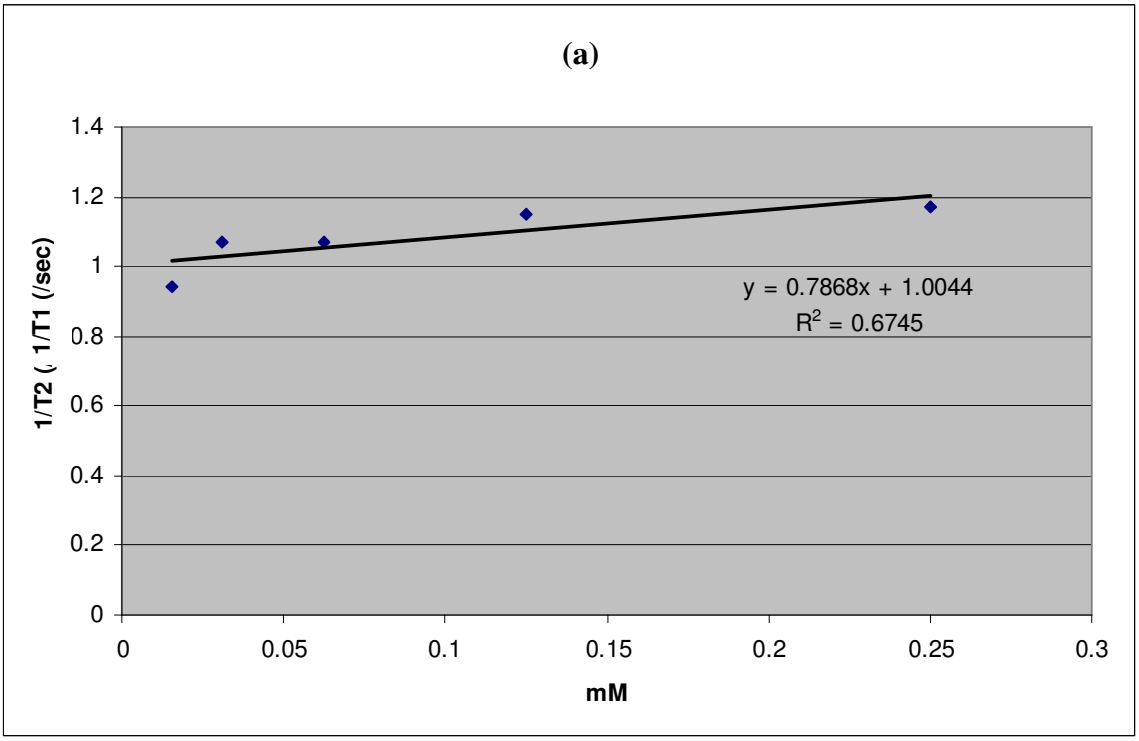


Figure S1. Dynamic light scattering (DLS) data of the hydrodynamic sizes of the silanized Dy_2O_3:Tb^{3+} nanocrystals in aqueous suspension.



(b)

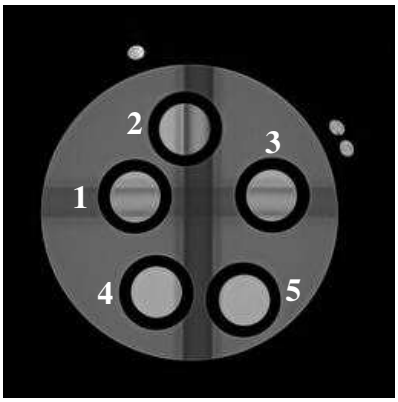


Figure S2. (a) Longitudinal relaxivity of the nanocrystals at different concentration in 1% agarose gel, (b) T_1-weighted MR images of silanized Dy_2O_3:Tb^{3+} NCs in 1% agarose gel with increasing concentrations (**1**: 0.0125, **2**:0.030, **3**:0.06, **4**:0.125, **5**:0.25 mM). The black stripes are from the instrument.