**Supplementary materials**

**Coating Persistent Luminescence Nanoparticles with Hydrophilic Polymers for *In Vivo* Imaging**

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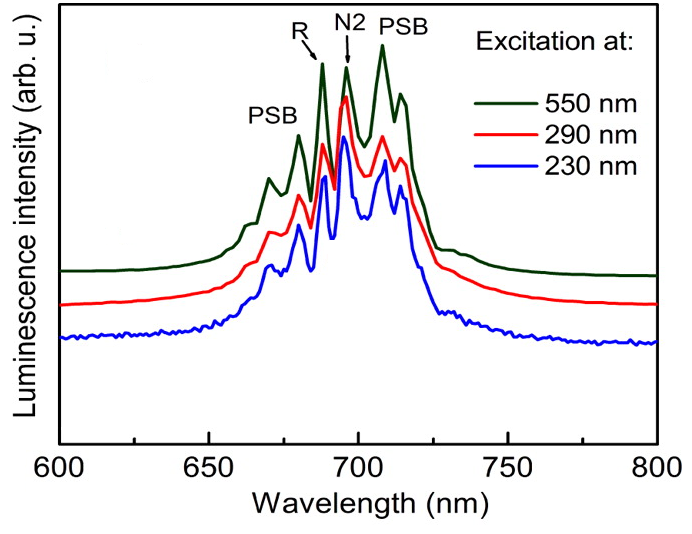
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Fig S1. Emission spectrum of ZGO at different excitation wavelength.

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Fig S2. *In vivo* imaging using non-coated ZGO-OH nanoparticles



Fig S3. Thermogravimetric analyses of functionalized ZGO-NH2 (blue), ZGO-PEG (green), and ZGO-HPMA (red). The weight loss percentages, i.e. 1.2%, 4.3%, and 5.2% have been determined between 220 and 550 °C due to -NH2, -PEG, and -HPMA thermal degradation, respectively.



Fig S4. Colloidal stability of functionalized ZGO in DI water