

## Gram-Scale Synthesis of Superparamagnetic Fe<sub>3</sub>O<sub>4</sub> Nanocrystal Clusters with Long-Term Charge Stability for Highly Stable Magnetically Responsive Photonic Crystals

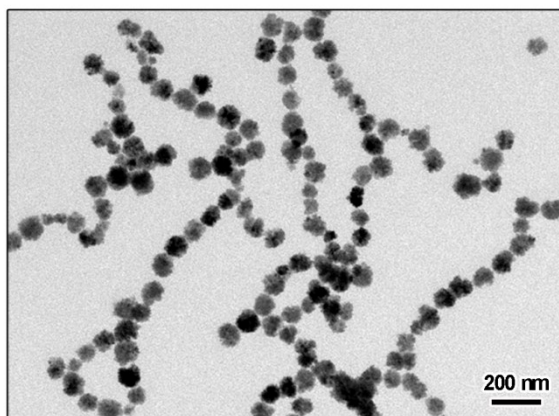
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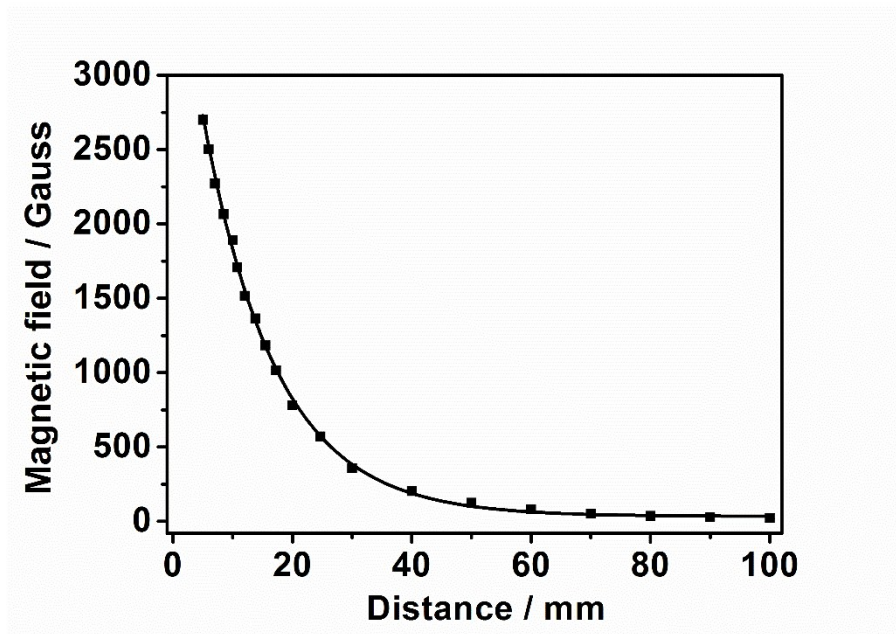
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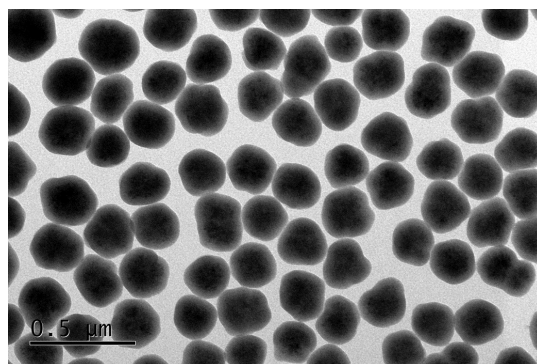
### Supporting Figures



**Figure S1.** The TEM image shows the morphology of Fe<sub>3</sub>O<sub>4</sub> CNCs synthesized by using 16.5 g of sodium acetate while keeping other experimental parameters constant ([FeCl<sub>3</sub>·6H<sub>2</sub>O] = 6 mmol, PAA = 0.69 g, EG = 60 mL, reaction temperature = 200 °C, and time = 10 h).



**Figure S2.** The strength of magnetic fields at different distance from the centre of the magnet used for measuring the reflectance spectra.



**Figure S3.** A typical TEM image of silica-coated  $\text{Fe}_3\text{O}_4$  CNCs ( $\text{Fe}_3\text{O}_4@\text{SiO}_2$ ).