Supplementary Information

Hydrothermal Synthesis of Inorganic–Organic Hybrid Gadolinium Hydroxide Nanoclusters with Controlled Size and Morphology

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Synthesis of 4-tert-butylcatechol modified gadolinium hydroxide nanoparticles

These particles were also synthesized in batch type reactor at 350 °C for 10 min. For this process, precursor C was used. The molar ratio of precursor:KOH:4-tert-butylcatechol (1:25:2.5) was kept. The TEM image of the product is shown in Fig. 1.

Fig. S1 TEM image of 4-tert-butylcatechol modified gadolinium hydroxide nanoparticles.