



**Figure S1.** Elemental mapping of (a) CNH/Fe<sub>3</sub>O<sub>4</sub>/Sm<sub>2</sub>O<sub>3</sub>/Gd<sub>2</sub>O<sub>3</sub> and (b) CNH/Fe<sub>3</sub>O<sub>4</sub>@Cdot/Sm<sub>2</sub>O<sub>3</sub>/Gd<sub>2</sub>O<sub>3</sub>.