Novel synthesis of highly monodispersed $\gamma$-Fe$_2$O$_3$/SiO$_2$ and $\varepsilon$-Fe$_2$O$_3$/SiO$_2$ nanocomposite spheres

Tadashi Nakamura,* Yuri Yamada and Kazuhisa Yano
Toyota Central R&D Labs., Inc., 41-1 Yokomichi, Nagakute, Aichi, 480-1192 Japan.
Fax: +81-561-63-6507; Tel: +81-561-63-6259; E-mail: e1014@mosk.tytlabs.co.jp

Electronic Supplementary Information

Fig. SI-1. SEM image (a) and XRD pattern (b) for MMSS used in this study.
Fig. SI-2a. Enlarged TEM images of Fig.1(b).

Fig. SI-2b. Enlarged TEM images of Fig.1(d).
Fig. SI-2c. Enlarged TEM images of Fig.1(f).

Fig. SI-3. EDX spectrum for nanocomposite spheres calcined at 1273 K.
Fig. SI-4. N\textsubscript{2} adsorption isotherms (a, c) and corresponding pore size distribution curves (b, d) for MMSS hosts and Fe\textsubscript{2}O\textsubscript{3}/SiO\textsubscript{2} nanocomposite spheres calcined at 1173 K (a, b) and 1273 K (c, d)