Novel organic–inorganic hybrid soft xerogels with lanthanide complexes through an ionic liquid linkage

Zhi-Yuan Yan, Bing Yan*

Department of Chemistry, Tongji University, Shanghai, 200092, China.
E-mail: byan@tongji.edu.cn; Fax: +86-21-65982287; Tel: +86-21-65984663

February 10, 2014

Supporting Information

Figure S1  XRD patterns of lanthanide soft hybrid xerogel materials: (a) [Ln(L)_4]^{-} IM^{+}-Al, (b) [Ln(L)_4]^{-} IM^{+}-Ti1 (Ln = Eu, Tb, Sm, L = TTA, TAA)
Figure S2 Ultraviolet-visible diffuse reflection absorption spectra of lanthanide soft hybrid xerogel materials: (a) containing Eu$^{3+}$, (b) containing Tb$^{3+}$, (c) containing Sm$^{3+}$
Figure S3 SEM images of lanthanide soft hybrid xerogel materials: (a) \([\text{Eu(TTA)}_4]^{-}\) IM\(^+\)-Al and (b) \([\text{Eu(TTA)}_4]^+\) IM\(^+\)-Ti1
Figure S4 Differential scanning calorimetry (DTG) and thermogravimetric (TG) curves of lanthanide soft hybrid xerogel materials: [Eu(TTA)$_4$]$^{+}$-Al (a) and [Eu(TTA)$_4$]$^{+}$-Til (b)