Supplemental Information for:

Structurally Characterized Luminescent Lanthanide Zinc Carboxylate Precursors for Ln-Zn-O Nanomaterials

by

Timothy J. Boyle, Rebecca Raymond, Daniel M. Boye, Leigh Anna M. Ottley, Ping Lu

List of Figures :

- Figure S1. TEM images of Ln-Zn-O nanoparticles synthesized from: (a) 8 and (b) 18.
- Figure S2. XRD patterns of Ln-Zn-O nanoparticles synthesized from: (a) 8 and (b) 18.
- Figure S3. EDS patterns of Ln-Zn-O nanoparticles synthesized from: (a) 8 and (b) 18.
- Figure S4. TEM images of Ln-Zn-O nanoparticles synthesized from: (a) 10 and (b) 22.
- Figure S5. XRD patterns of Ln-Zn-O nanoparticles synthesized from: (a) 10 and (b) 22.
- Figure S6. EDS patterns of Ln-Zn-O nanoparticles synthesized from: (a) 10 and (b) 22.
- Figure S7. TGA/DTA of 8, 10, and 18.
- Figure S8. PXRD of fired (400 °C) nanoparticles of 8 and 18.

Figure SS1. TEM images of Ln-Zn-O nanoparticles synthesized from: (a) 8 and (b) 18.

(a)



(b)



Figure SS2. XRD patterns of Ln-Zn-O nanoparticles synthesized from: (a) 8 and (b) 18. Zincite



pattern shown below



Figure S3. EDS patterns of Ln-Zn-O nanoparticles synthesized from: (a) 8 and (b) 18.



(a)



(b)





Figure S5. XRD patterns of Ln-Zn-O nanoparticles synthesized from: (a) 10 and (b) 22. Zincite pattern shown below



Figure S6. EDS patterns of Ln-Zn-O nanoparticles synthesized from: (a) 10 and (b) 22.



Figure S7. TGA/DTA of 8, 10, and 18.

(a)

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

(b)

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture. Supplementary Material (ESI) for Dalton Transactions This journal is (c) The Royal Society of Chemistry 2010

(c)

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.



