Electronic Supporting Information:

Assembling mono-, di- and tri-nuclear coordination complexes with a ditopic analogue of 2,2':6',2''-terpyridine: syntheses, structures and catalytic studies

Zhiwei Yin, Guoqi Zhang, Tonya Phoenix, Shengping Zheng and James C. Fettinger

Fig. S1. Powder X-ray diffraction profiles (measured and simulated).

Complex 1: Experimental PXRD profile

Complex 1: Calculated PXRD profile based on single crystal X-ray diffraction data
Complex 1: combined experimental and calculated spectra
Complex 4: Experimental PXRD profile

Complex 6: Experimental PXRD profile
Fig. S2. Thermogravimetric analysis (TGA) data for complexes 1-4 and 6.

TGA for 1:
TGA for 2:
TGA for 3:

Temperature (°C) vs. Weight (%)

Key Points:
- 559.90°C: 4.192% (0.1163mg)
- 553.68°C
- 3.171%
- 86.77%
TGA for 4:

![Graph showing weight loss as a function of temperature]

- Weight loss at 400°C: 41.48%
- Weight loss at 600°C: 39.36%
TGA for 6: