Electronic Supplementary Information

Reactions of cadmium(II) nitrate with 4-(trimethylammonio)benzenethiolate in the presence of N-donor ligands

Ai-Xia Zheng, a Hui-Fang Wang, a Chun-Ning Lü, a Zhi-Gang Ren, a Hong-Xi Li, a and Jian-Ping Lang* a,b

a College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou 215123, People’s Republic of China

b State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, P. R. China
**Figure S1.** Electronic spectra of the product derived from the reaction of Cd(NO$_3$)$_2$·4H$_2$O and 2 equiv. of TabHPF$_6$ in the presence of Et$_3$N.

**Figure S2.** The positive-ion ESI mass spectrum of the product derived from the reaction of Cd(NO$_3$)$_2$·4H$_2$O and 2 equiv. of TabHPF$_6$ in the presence of Et$_3$N.

**Figure S3.** The positive-ion ESI mass spectrum of 1.

**Figure S4.** The positive-ion ESI mass spectrum of 2.

**Figure S5.** The positive-ion ESI mass spectrum of 3.

**Figure S6.** The positive-ion ESI mass spectrum of 4.

**Figure S7.** The positive-ion ESI mass spectrum of 5.

**Figure S8.** The positive-ion ESI mass spectrum of 6.

**Figure S9.** Electronic spectra of bppy and bdmppy in MeCN in a 1-cm-thick glass cell.
Figure S1. Electronic spectra of the product \((4.2 \times 10^{-4} \text{ M})\) derived from the reaction of \(\text{Cd(NO}_3)_2\cdot4\text{H}_2\text{O}\) and 2 equiv. of TabHPF\(_6\) in the presence of Et\(_3\)N in MeCN in a 1-cm-thick glass cell.

Figure S2. The positive-ion ESI mass spectrum of the product derived from the reaction of \(\text{Cd(NO}_3)_2\cdot4\text{H}_2\text{O}\) and 2 equiv. of TabHPF\(_6\) in the presence of Et\(_3\)N.

Figure S3. The positive-ion ESI mass spectrum of 1.
Figure S4. The positive-ion ESI mass spectrum of 2.

Figure S5. The positive-ion ESI mass spectrum of 3.

Figure S6. The positive-ion ESI mass spectrum of 4.
Figure S7. The positive-ion ESI mass spectrum of 5.

Figure S8. The positive-ion ESI mass spectrum of 6.

Figure S9. Electronic spectra of bppy and bdmppy in MeCN in a 1-cm-thick glass cell.