Accessory Publication

Supplementary data (for electronic supplementary information only)

New Square-Planar Bis(Dithiolene) Complexes: Synthesis, Crystallography and Properties of $[Bu_4N][M^{III}(btdt)_2]$ (M = Cu, Au) and $[Bu_4N]_2[Pt^{II}(btdt)_2]$ ($\{btdt\}^{2-} = 2,1,3$ -Benzenethiadiazole-5,6-dithiolate)

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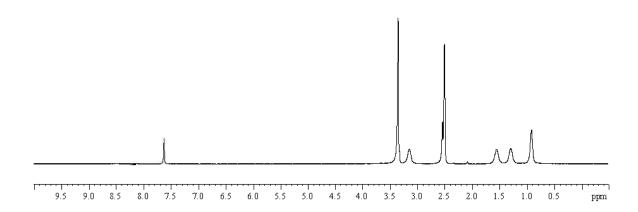


Fig. S1. 1 H NMR spectrum of compound **1** in DMSO- d_{6}

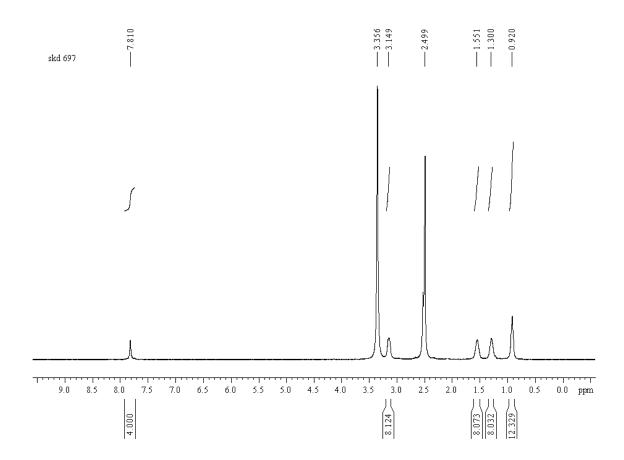


Fig. S2. 1 H NMR spectrum of compound **2** in DMSO- d_{6}

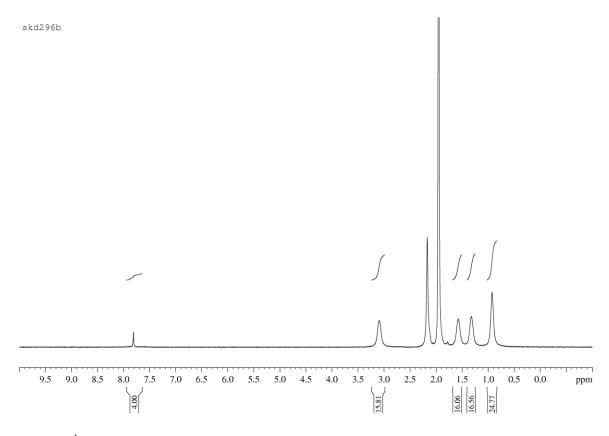


Fig. S3. ¹H NMR spectrum of compound 3 in CD₃CN

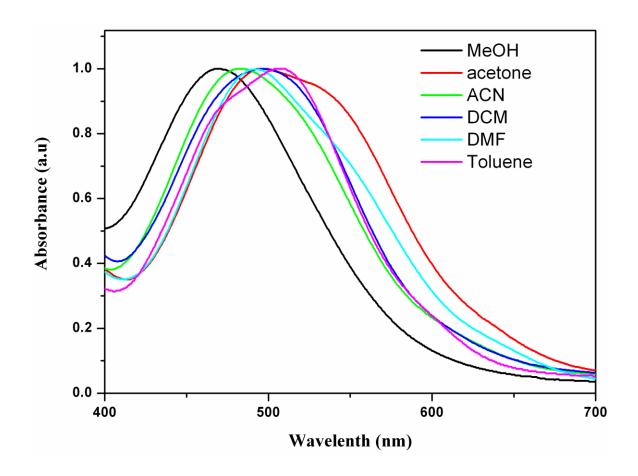


Fig. S4. Electronic absorption spectra of complex $[Bu_4N]_2[Pt^{II}(btdt)_2]$ (3) in different solvents.

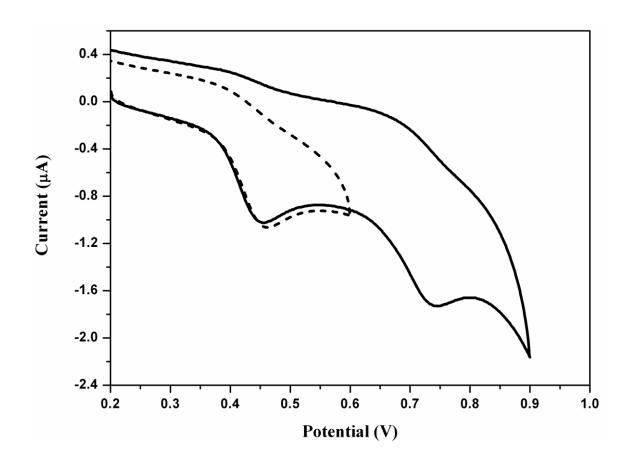


Fig. S5. Cyclic voltammograms of compound [Bu₄N]₂[Pt^{II}(btdt)₂] (3) in TBAP/MeOH at a scan rate 50 mV s⁻¹ (dotted line corresponds to the first oxidation).

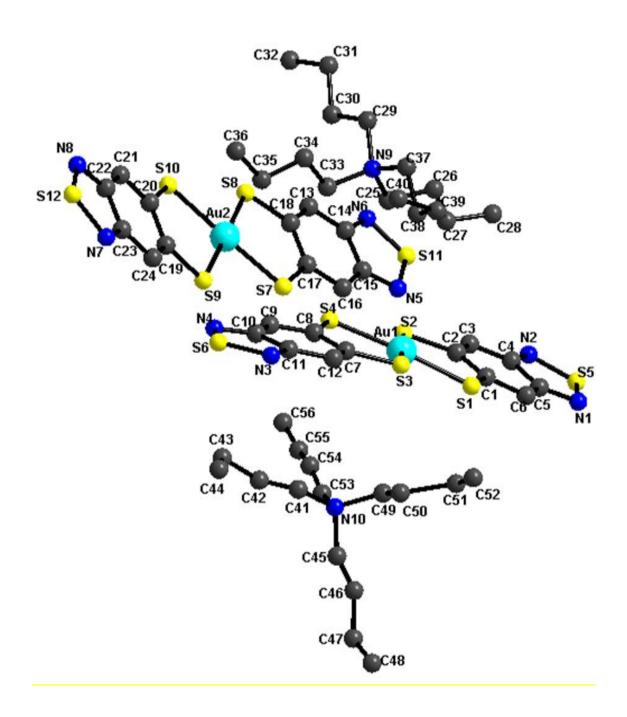


Fig. S6. Asymmetric unit in compound **2** (20% probability, ball and stick representation) [There are two molecules in the asymmetric unit, the carbon atoms (C42, C43, C45, C47, C49, C50, C51, C53, C54, C55) and nitrogen atom (N10) in one of the $[Bu_4N]^+$ cations suffer a significant disorder problem]. Hydrogen atoms omitted for clarity.