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## **Supporting information**

- Fig.1S Cyclic voltammograms of (a) **1** and (b) **2** with 1.0 mM target sample(**1**/**2**) in 0.1 M n-Bu<sub>4</sub>NPF<sub>6</sub>/CH<sub>3</sub>CN (Scan Rate v=100mVs<sup>-1</sup>, glassy carbon working electrode, Pt auxiliary electrode and SCE reference electrode).
- Fig.2S EPR spectra of N<sup>t</sup>Bu<sub>4</sub>[Ni(BNT)<sub>2</sub>] measured with a solid state sample at T =298 K, v=9.065 GHz,  $P_{mw}$ = 0.998 mW and modulation amplitude 0.1 mT.







Fig. 2S