Electronic Supplementary Material (ESI) for Dalton Transactions.


# Supporting Information for:

Synthesis and characterization of a series of nickel(II) alkoxide precursors and their utility for Ni(0) nanoparticle production

by

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*List of Supporting Figures*

**Figure S1.** S[illegible] carbon atoms

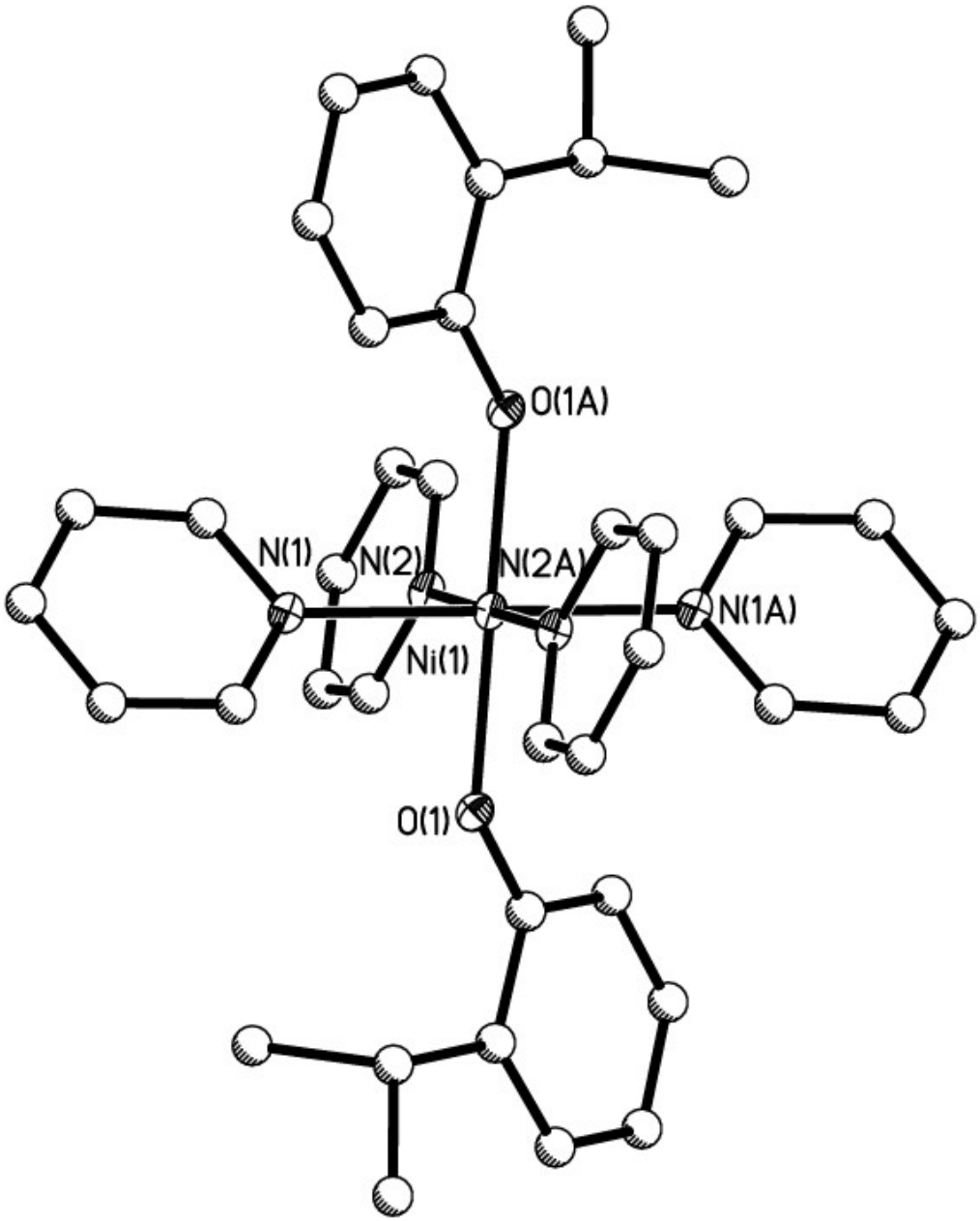

**Figure S2.** Structure plot of **3**. Thermal ellipsoids of heavy atoms drawn at the 30% level and carbon atoms represented by ball and stick diagrams for clarity.

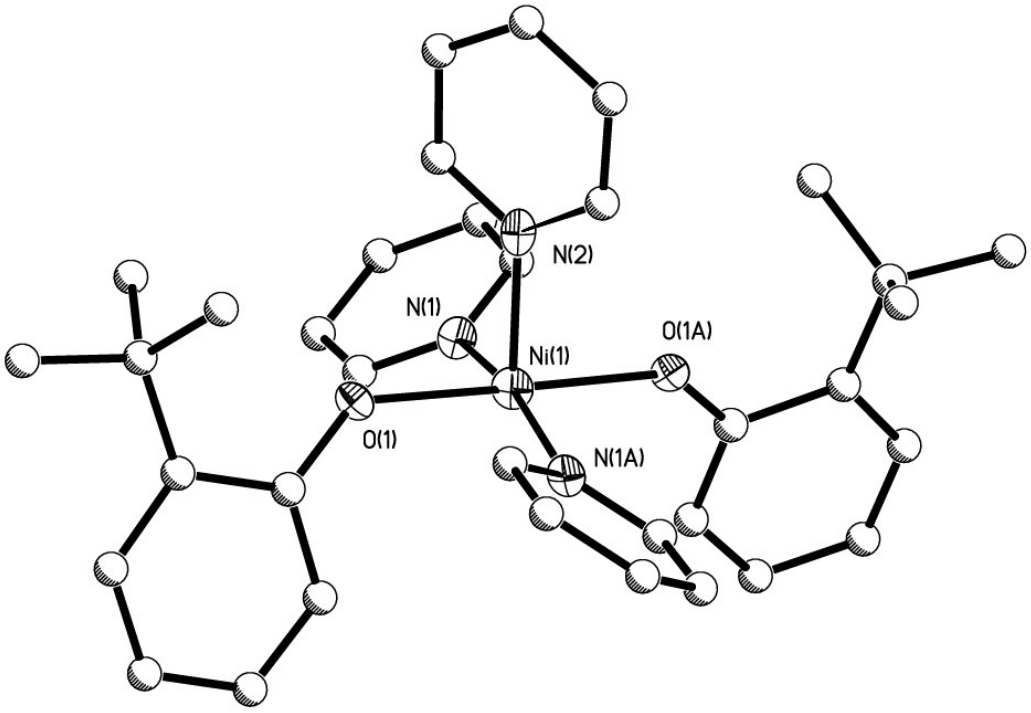

**Figure S3.** UV-vis spectra for **2** (◆ calculated singlet; = x calculated triplet, ■ experimental).

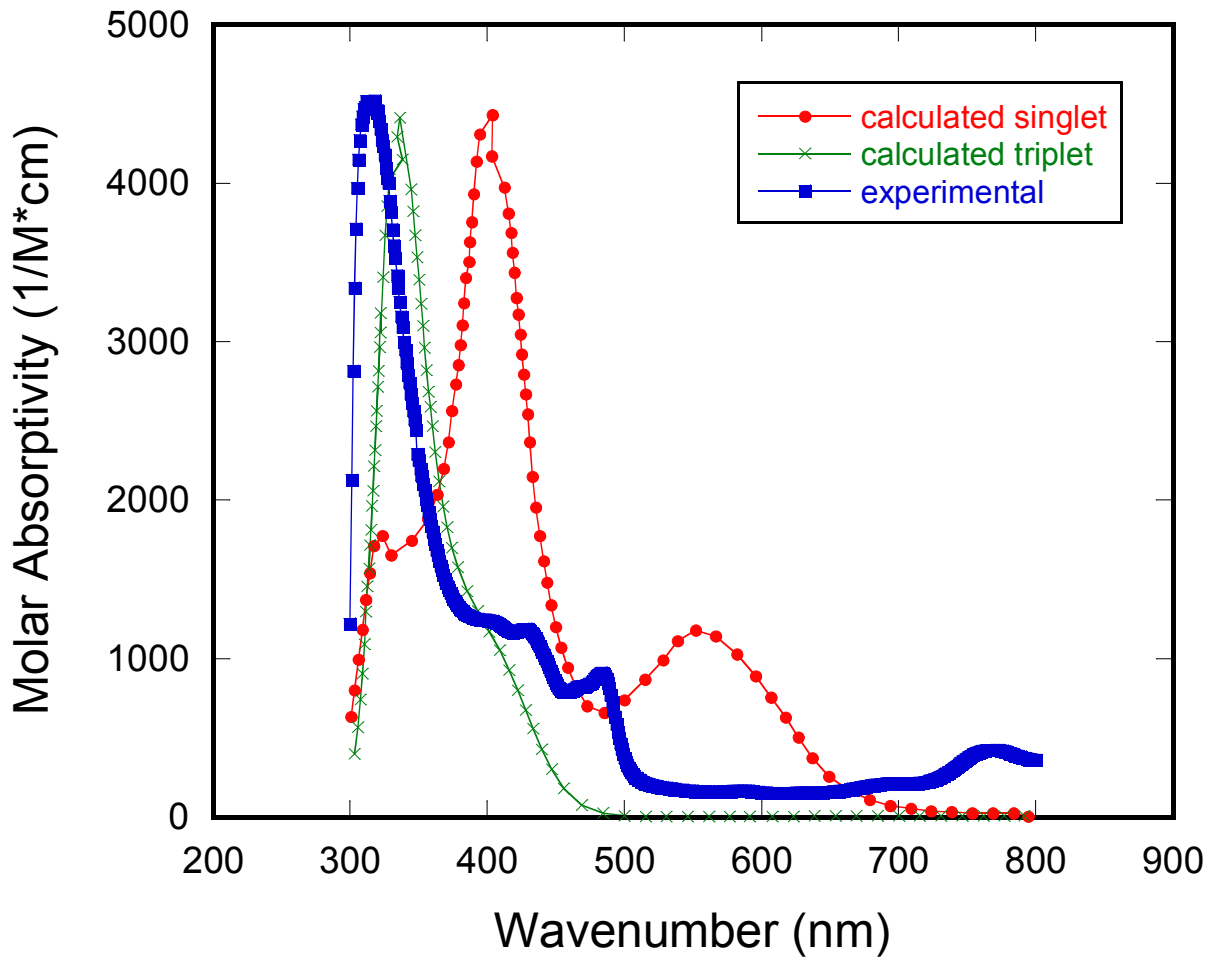

**Figure S4.** UV-vis spectra for **3** (◆ calculated singlet; = x calculated triplet, ■ experimental).

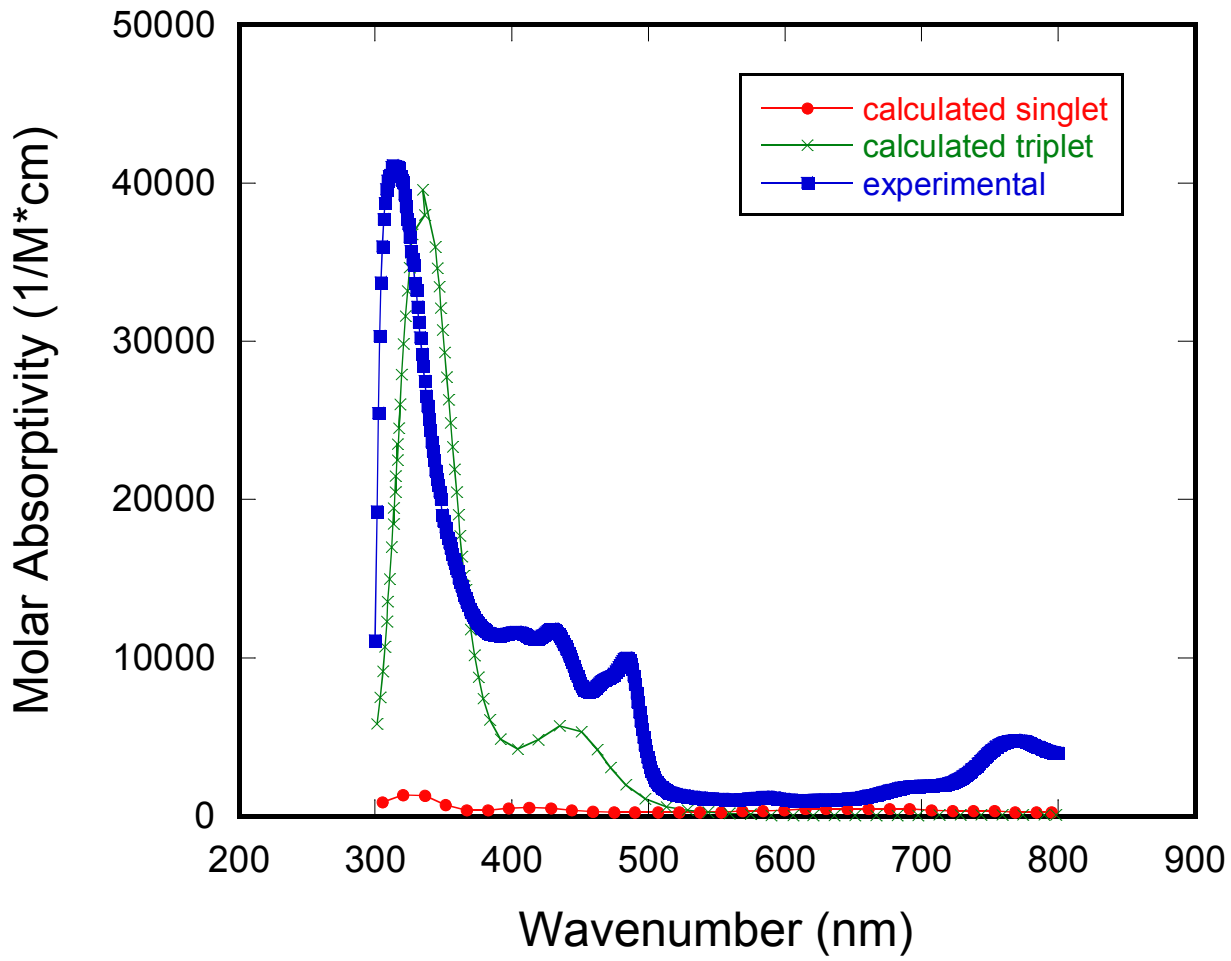

**Figure S5.** UV-vis spectra for **4** (◆ calculated singlet; = x calculated triplet, ■ experimental).

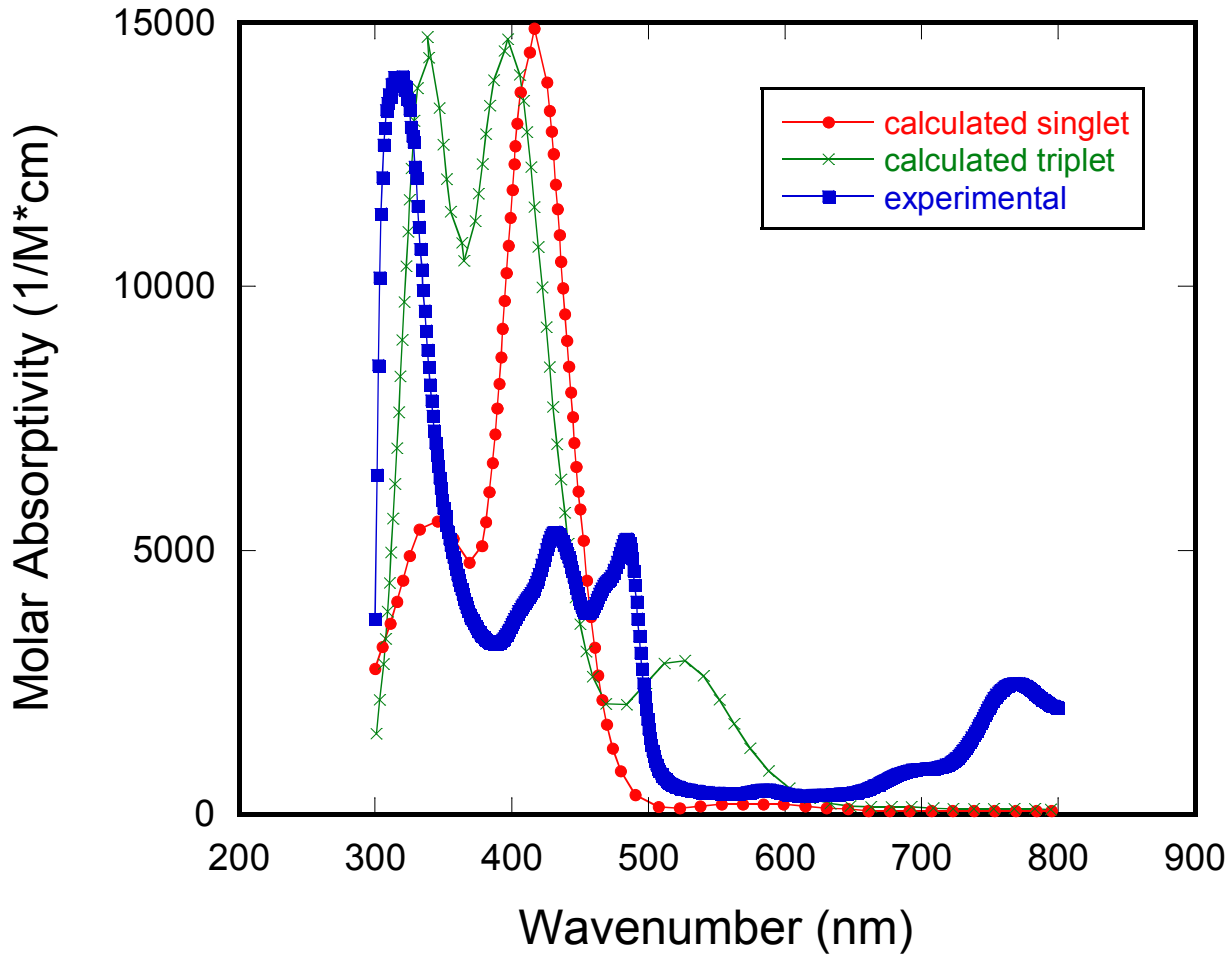

**Figure S6.** UV-vis spectra for **5** (◆ calculated singlet; = x calculated triplet, ■ experimental).

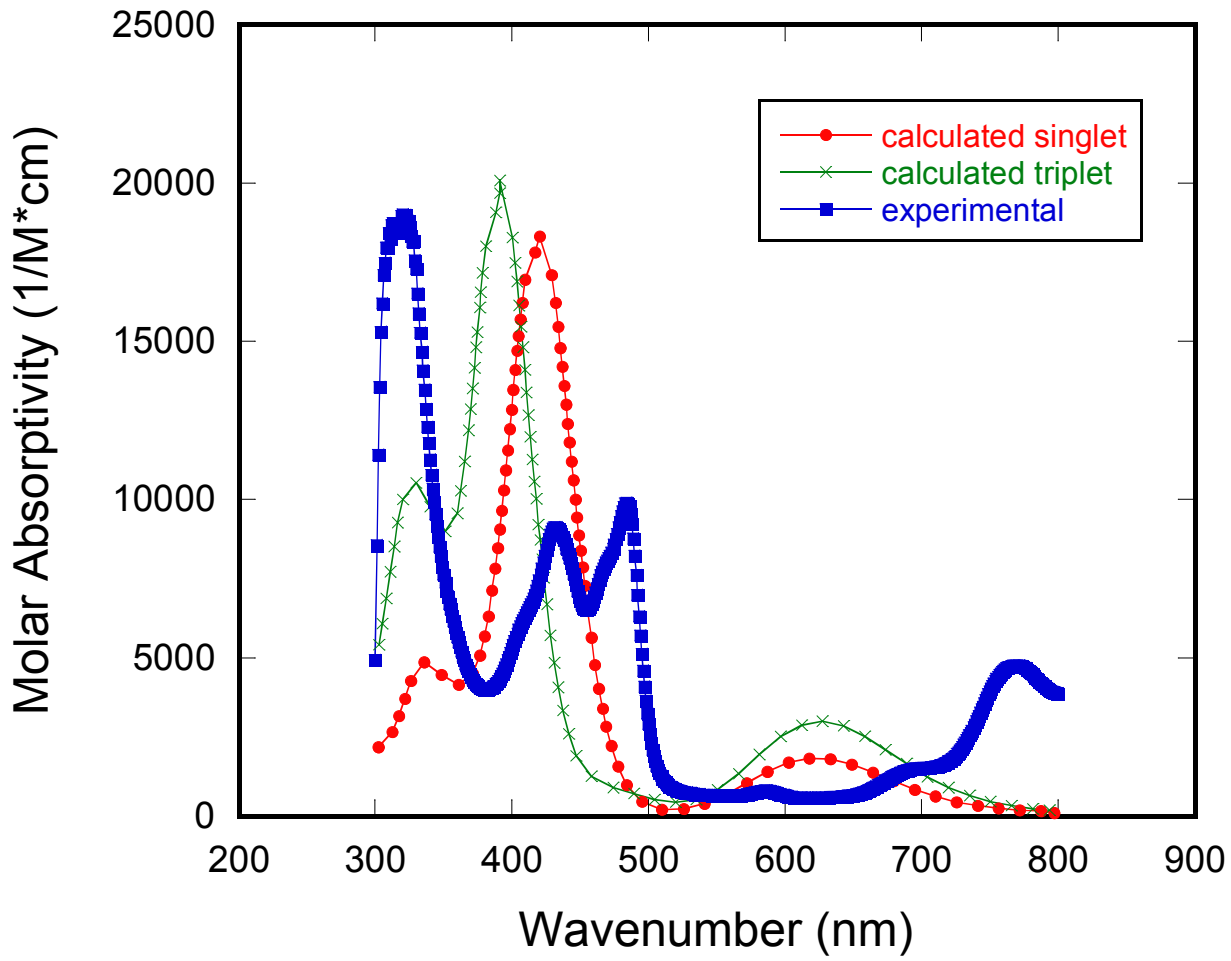

**Figure S7.** UV-vis spectra for **6** (◆ calculated singlet; = x calculated triplet, ■ experimental).

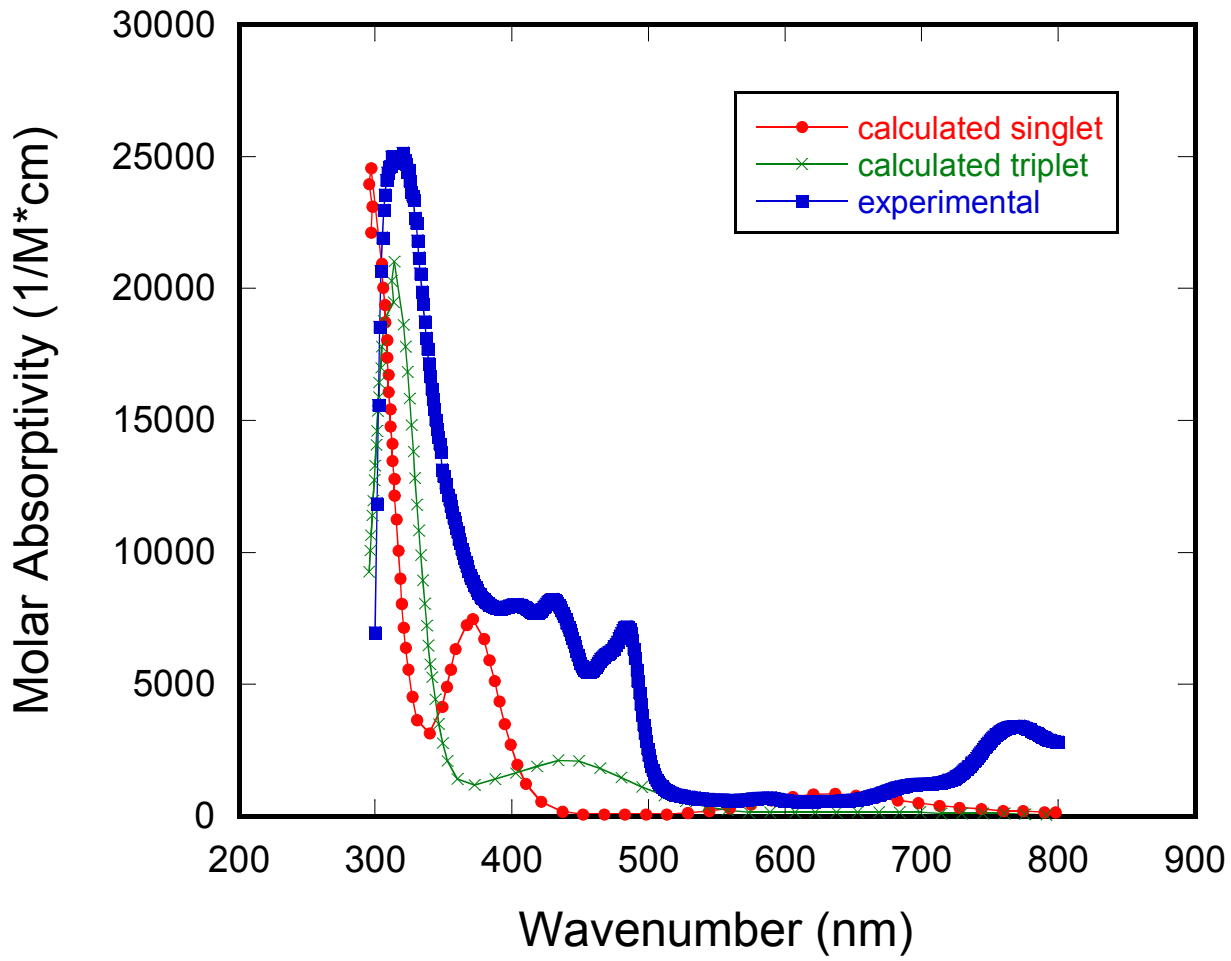

**Figure S8.** TGA analysis of **1** taken at 25 – 550 °C at a rate of 5 °C per minute under flowing argon.

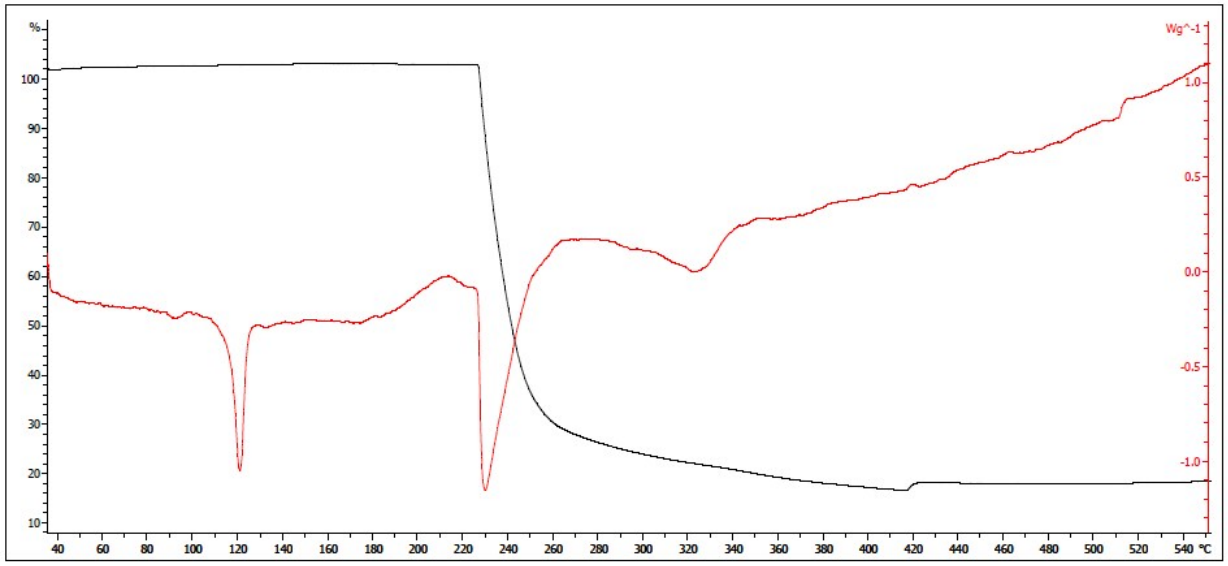


**Figure S9.** TGA analysis of **6** taken at 25 – 550 °C at a rate of 5 °C per minute under flowing argon.

**Figure S10.** PXRD for the resultant materials from TGA analysis of **1** taken at a range of 10-90$^{o}$ with a scan rate of 0.15 $^{o}$/sec.

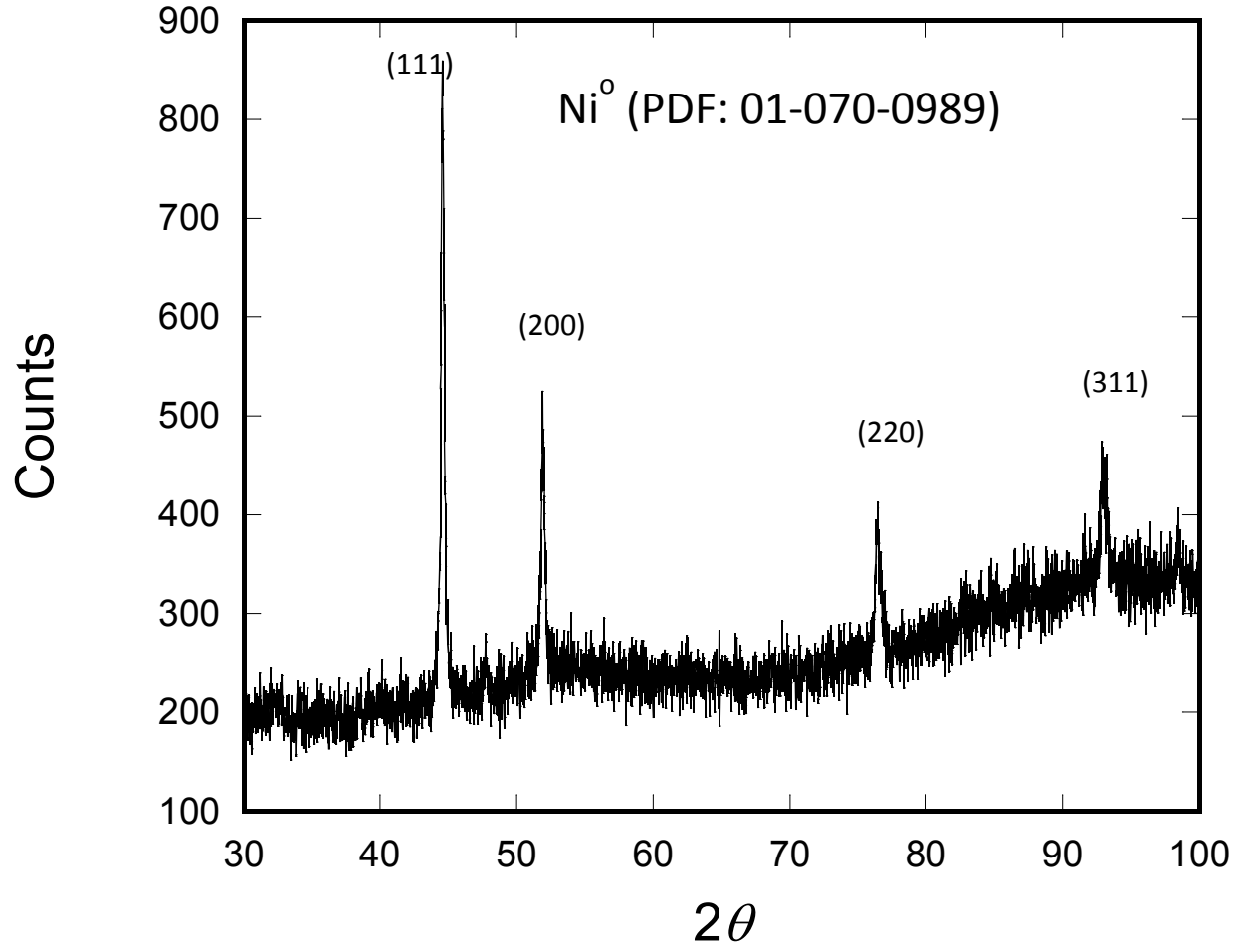

**Figure S11.** PXRD for the resultant materials from TGA analysis of **6** taken at a range of 10-90° with a scan rate of 0.15 °/sec.

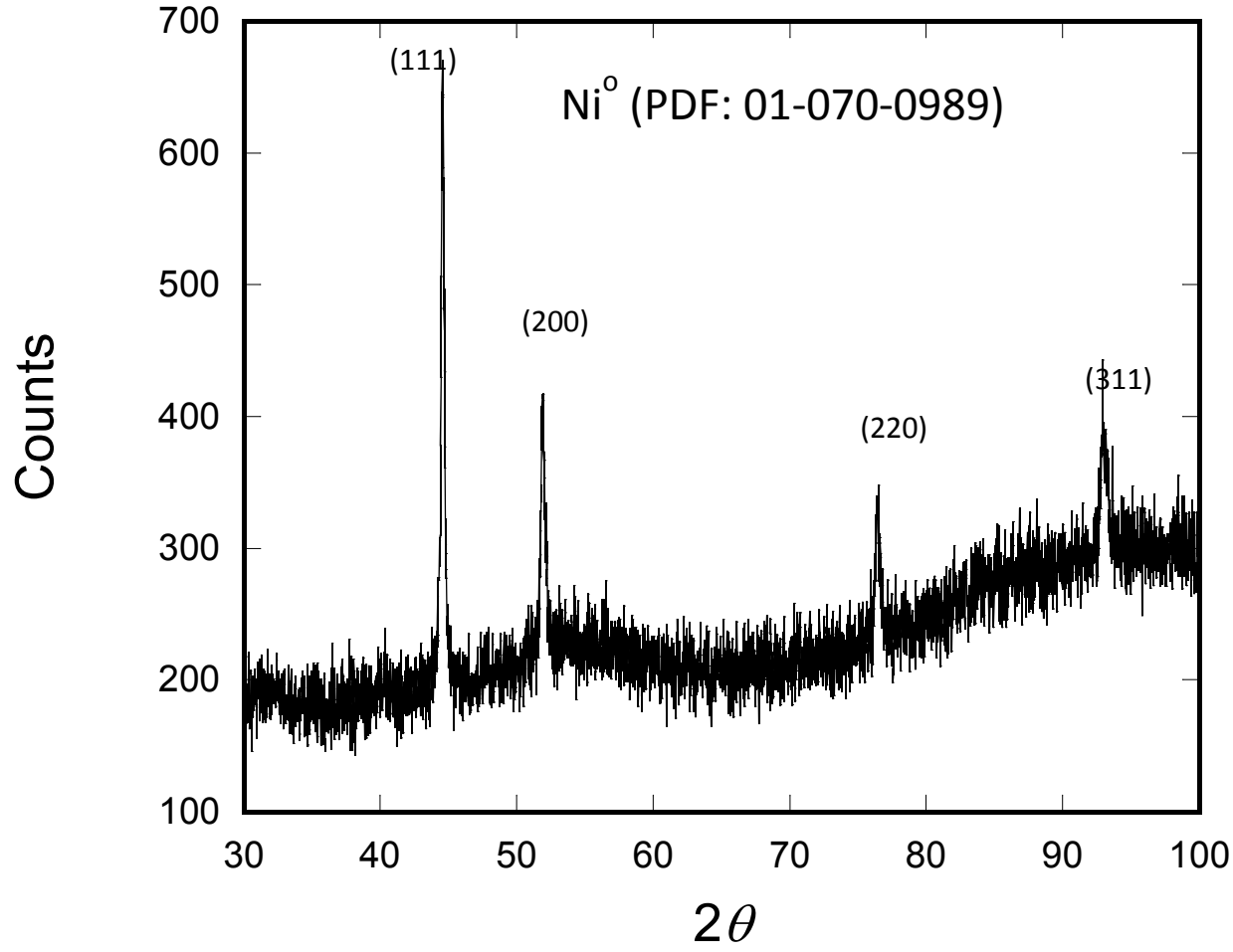

**Figure S12.** FTIR spectral data (shown from 3800 to 2400 $cm^{-1}$) for the resultant nanoparticles from the decomposition of **1** and **6.**