## **Electronic Supplementary Information**

## Simple Coordination Complex-Derived Ni NPs anchored N-doped

## porous carbons with high performance for reduction of nitroarenes

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**Figure S1**. The PXRD patterns of the simulated single crystal crystallography data (red), the as-synthesized Ni(dmg)<sub>2</sub> (black).



Figure S2. The SEM images of (a) Ni@NC-400, (b) Ni@NC-500, (c) Ni@NC-600, (d) Ni@NC-700.



Figure S3. (a) Scanning transmission electron microscope (STEM) and (b) EDS Ni element mapping of Ni@NC-700.



Figure S4. The TEM images of (a, b) Ni@NC-800 and (c,d) Ni@NC-900.



Figure S5. TGA curves of Ni@NC-T samples.



**Figure S6**. XPS survey spectrum of **Ni@NC-400** (a); Deconvoluted high resolution XPS spectra of C 1s (b); N 1s (c); Ni 2p (d).



**Figure S7**. XPS survey spectrum of **Ni@NC-500** (a); Deconvoluted high resolution XPS spectra of C 1s (b); N 1s (c); Ni 2p (d).



**Figure S8**. XPS survey spectrum of **Ni@NC-600** (a); Deconvoluted high resolution XPS spectra of C 1s (b); N 1s (c); Ni 2p (d).



Figure S9. Successive UV-vis absorption spectra of the reduction of 4-NP catalyzed by Ni@NC-400.



Figure S10. Successive UV-vis absorption spectra of the reduction of 4-NP catalyzed by Ni@NC-500.



Figure S11. Successive UV-vis absorption spectra of the reduction of 4-NP catalyzed by Ni@NC-600.



Figure S12. The reusability of Ni@NC-700 catalyst.