

**Supporting information**

**Li-ion and Na-ion Insertion into Size-controlled Nickel  
Hexacyanoferrate Nanoparticles**

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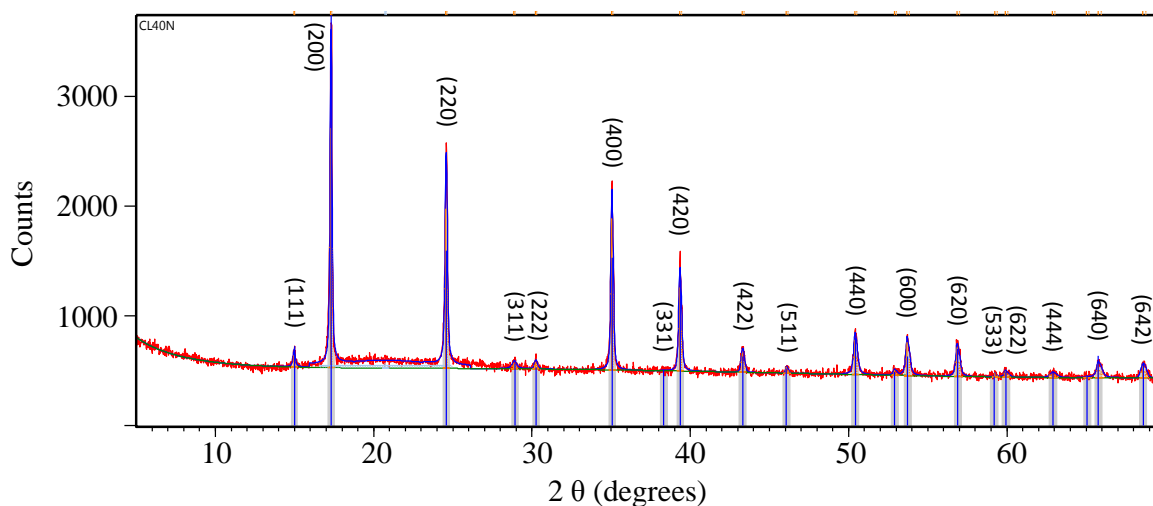
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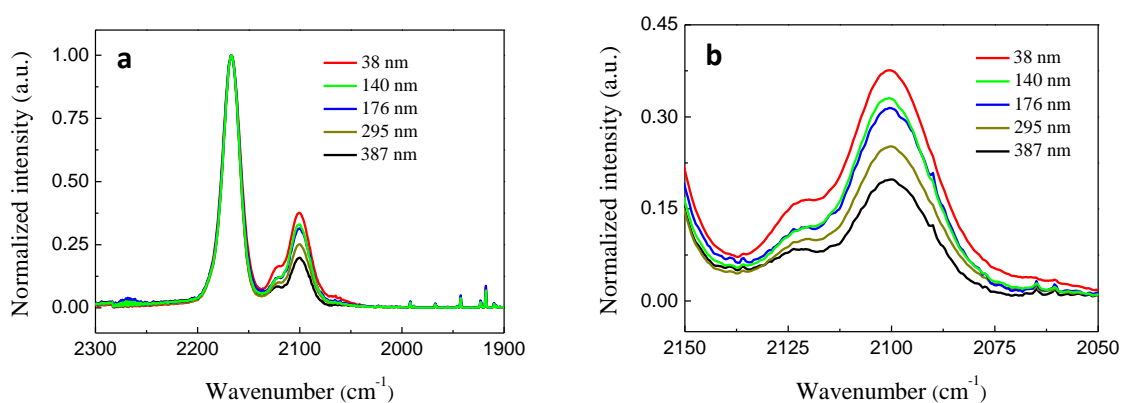
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**Figure S1.** Room temperature X-Ray diffractogram of the 140 nm NiFe-PBA particle sample from  $2\theta = 5$  to 70 degrees. Using the (400) peak yields a lattice parameter of  $a = 10.23 \text{ \AA}$ .



**Figure S2.** Room temperature FT-IR spectra for the NiFe-PBA particles of different sizes. a) The cyanide stretching region between  $2300 \text{ cm}^{-1}$  and  $1900 \text{ cm}^{-1}$ ; b) Zoom in spectra between  $2150 \text{ cm}^{-1}$  and  $2050 \text{ cm}^{-1}$ , revealing increase in the intensity of the  $\text{Fe}^{2+}\text{-CN-Ni}^{2+}$  stretching peak with decreasing size.