# Supplementary Information

## Comparison of Electrochemical Performances of Olivine $NaFePO_4$ in Sodium-Ion Batteries and Olivine $LiFePO_4$ in Lithium-Ion Batteries

**Yujie Zhu, Yunhua Xu, Yihang Liu, Chao Luo and Chunsheng Wang***

*Thermogravimetric analysis (TGA) test for carbon-coated $LiFePO_4$.*

Thermogravimetric analysis (TGA) is used to determine the percentage of carbon in the carbon-coated $LiFePO_4$ sample. The powder sample is loaded into the TGA equipment (*CAHN TG 2131, USA*) and heated from room temperature to 700 °C in air atmosphere with a heating rate of 10 °C per min. As shown in Figure S1, the 13% mass loss above 500 °C corresponds to the oxidation of carbon in the sample.

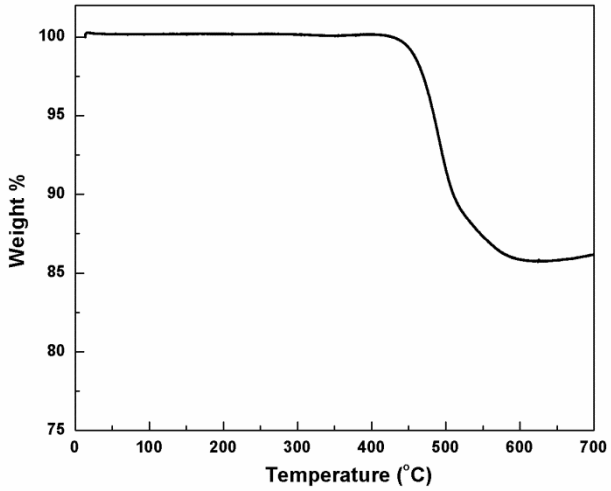


**Figure S1** TGA result of carbon-coated $LiFePO_4$.