Journal Name

Dynamic Article Links ►

Cite this: DOI: 10.1039/c0xx00000x

www.rsc.org/xxxxxx

ARTICLE TYPE

Electronic Supplementary Information

Title: Preparing $LiNi_{0.5}Mn_{1.5}O_4$ Nanoplates with Superior Properties in Lithium-ion Batteries Using Bimetal-Organic Coordination-Polymer as Precursors (ID: TA-ART-01-2014-000505)

Shifeng Yang,[a,b] Jian Chen,*[a] Yingjia Liu[a] and Baolian Yi[a]

Received (in XXX, XXX) Xth XXXXXXXXX 20XX, Accepted Xth XXXXXXXXX 20XX
DOI: 10.1039/b000000x

[a]*Advanced rechargeable battery Laboratory, Dalian Institute of Chemical Physics,Chinese Academy of Sciences, 457 Zhongshan Road, Dalian116023, China. Fax: +86-411-84379687; Tel: +86-411-84379687 E-mail: chenjian@dicp.ac.cn;*
[b]*Graduate School of the Chinese Academy of Sciences, Beijing 100049,China*

†Electronic Supplementary Information (ESI) available:
The crystal structures of NiMn-CPs and Ni-Mn-O were investigated by X-ray diffractometry (XRD, X' pert PRO MPD) using Cu Kα radiation (λ=0.15418 nm) with a scanning rate of 5°/min between 10° and 80°. The FT-IR spectra were collected using KBr discs on Fourier Transform Infrared spectrometer (FT-IR, VERTEX70) in the range of 4000 ~ 400 cm^{-1}.

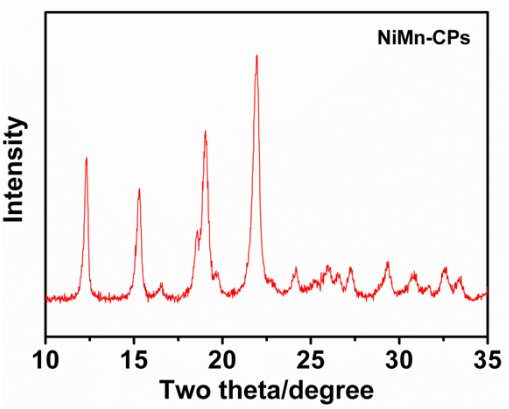

Figure †S1. XRD pattern of Ni, Mn-ptcda coordination polymers (NiMn-CPs) obtained after hydrothermal reaction

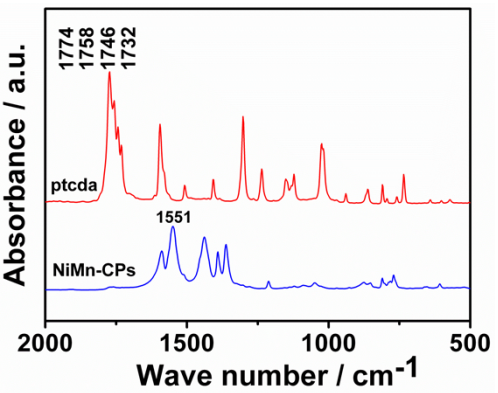

Figure †S2. IR spectrum of ptcda (the starting material) and Ni, Mn-ptcda coordination polymers (NiMn-CPs)

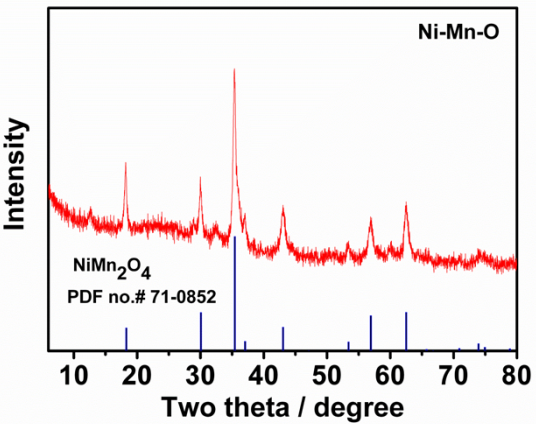

Figure †S3. X-ray diffraction patterns of Ni-Mn-O obtained by thermal decompostion of NiMn-CPs