Supporting Information

Thermal Stability and Phase Transformation of Electrochemically Charged/Discharged LiMnPO$_4$ Cathode for Li-Ion Battery

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Fig. S1 Rietveld refinement of XRD pattern from the as-prepared LiMnPO$_4$ nanoplate.
**Fig. S2** *In-situ* hot-stage XRD characterization of the discharged LiMnPO₄ paper electrode at different temperatures under UHP-Ar atmosphere (heating rate: 5°C/min).
**Fig. S3** SEM micrographs and EDAX results of (a) as-prepared LiMnPO$_4$ paper electrode and (b) after electrochemically cycled LiMnPO$_4$ electrode at discharged state (*: unknown).
**Fig. S4** MnO$_6$ polyhedra in LiMnPO$_4$, MnPO$_4$·H$_2$O and MnPO$_4$. 