

Synthesis of Fe²⁺ Substituted High-Performance LiMn_{1-x}Fe_xPO₄/C (x = 0, 0.1, 0.2, 0.3, 0.4) Cathode Materials for Lithium-Ion Batteries via Sol-Gel Processes

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Table S1. C contents of the LiMn_{1-x}Fe_xPO₄/C.

Sample	C wt%
LiMnPO ₄ /C	7.23
LiMn _{0.9} Fe _{0.1} PO ₄ /C	7.21
LiMn _{0.8} Fe _{0.2} PO ₄ /C	7.16
LiMn _{0.7} Fe _{0.3} PO ₄ /C	7.28
LiMn _{0.6} Fe _{0.4} PO ₄ /C	7.24

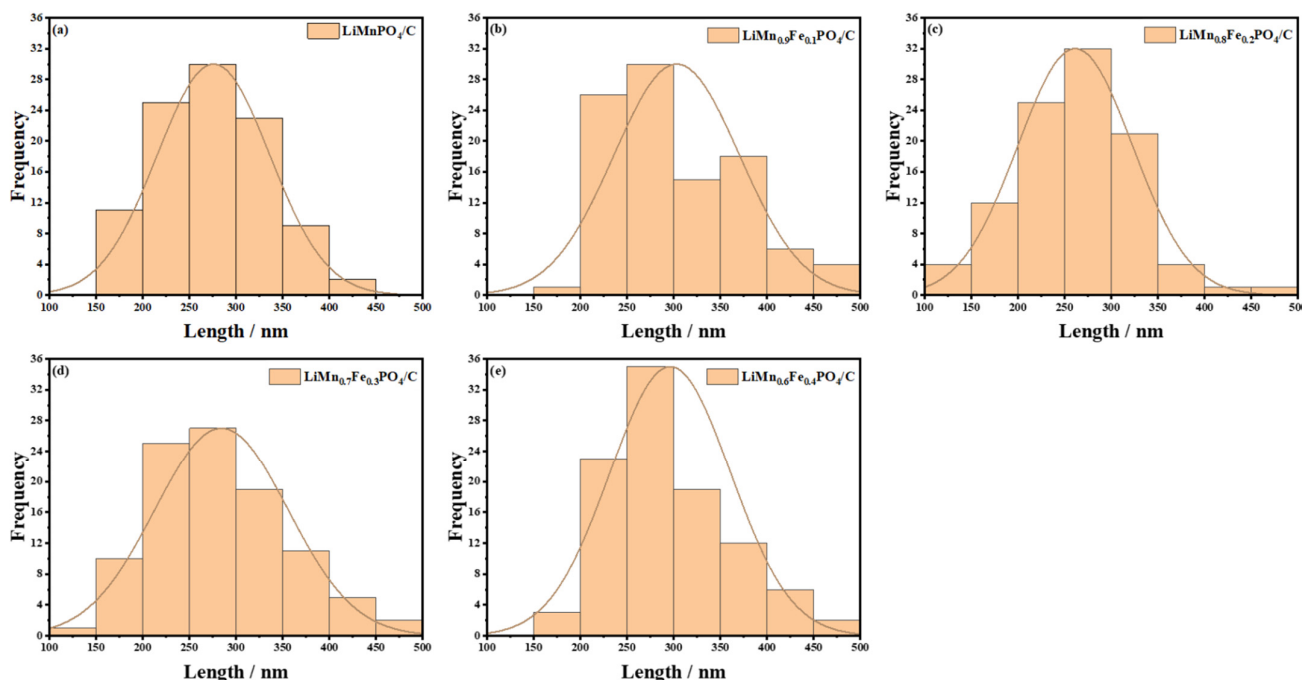


Figure S1. The statistics of particle size distribution of LiMn_{1-x}Fe_xPO₄/C (0 ≤ x ≤ 0.4) samples; (a) LiMnPO₄/C (based on SEM image (a)); (b) LiMn_{0.9}Fe_{0.1}PO₄/C (based on SEM image (b)); (c) LiMn_{0.8}Fe_{0.2}PO₄/C (based on SEM image (c)); (d) LiMn_{0.7}Fe_{0.3}PO₄/C (based on SEM image (d)); (e) LiMn_{0.6}Fe_{0.4}PO₄/C (based on SEM image (e)).