

Electronic Supplementary Information (ESI)

Li₃V₂(PO₄)₃@C Core-shell nanocomposite as a superior cathode material for lithium-ion batteries

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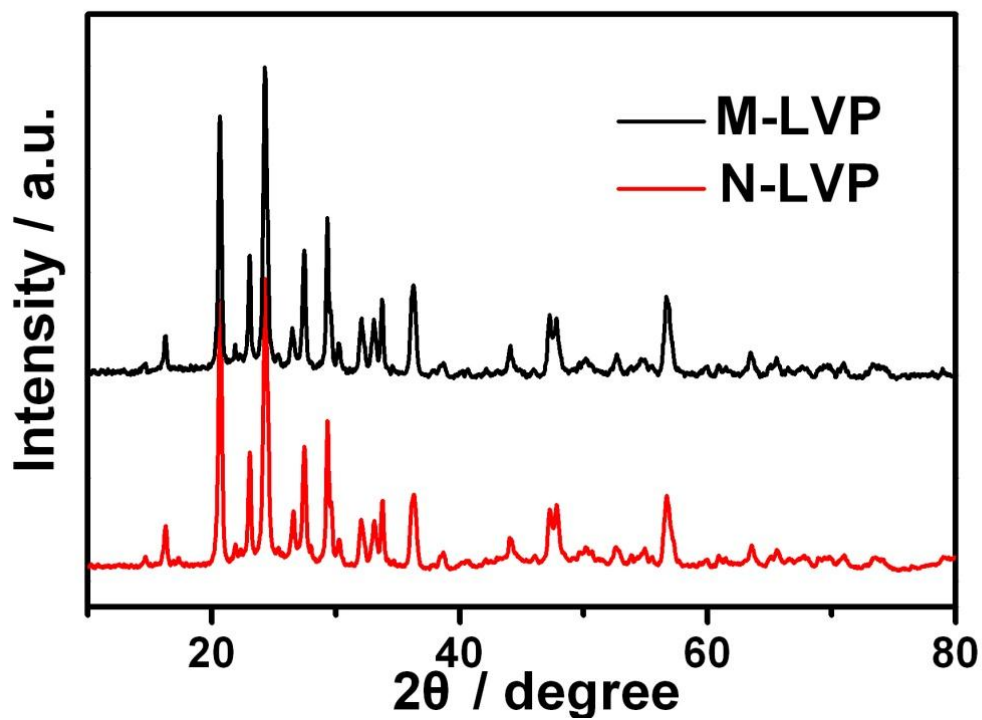


Fig. S1 XRD profiles of N-LVP and M-LVP

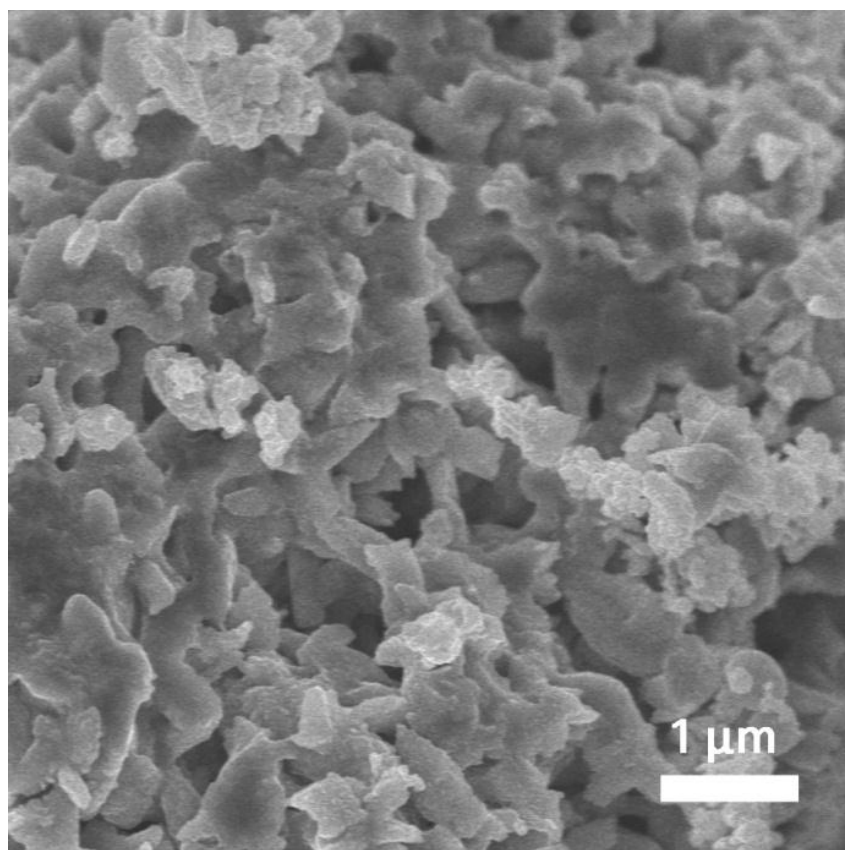


Fig. S2 SEM image of M-LVP

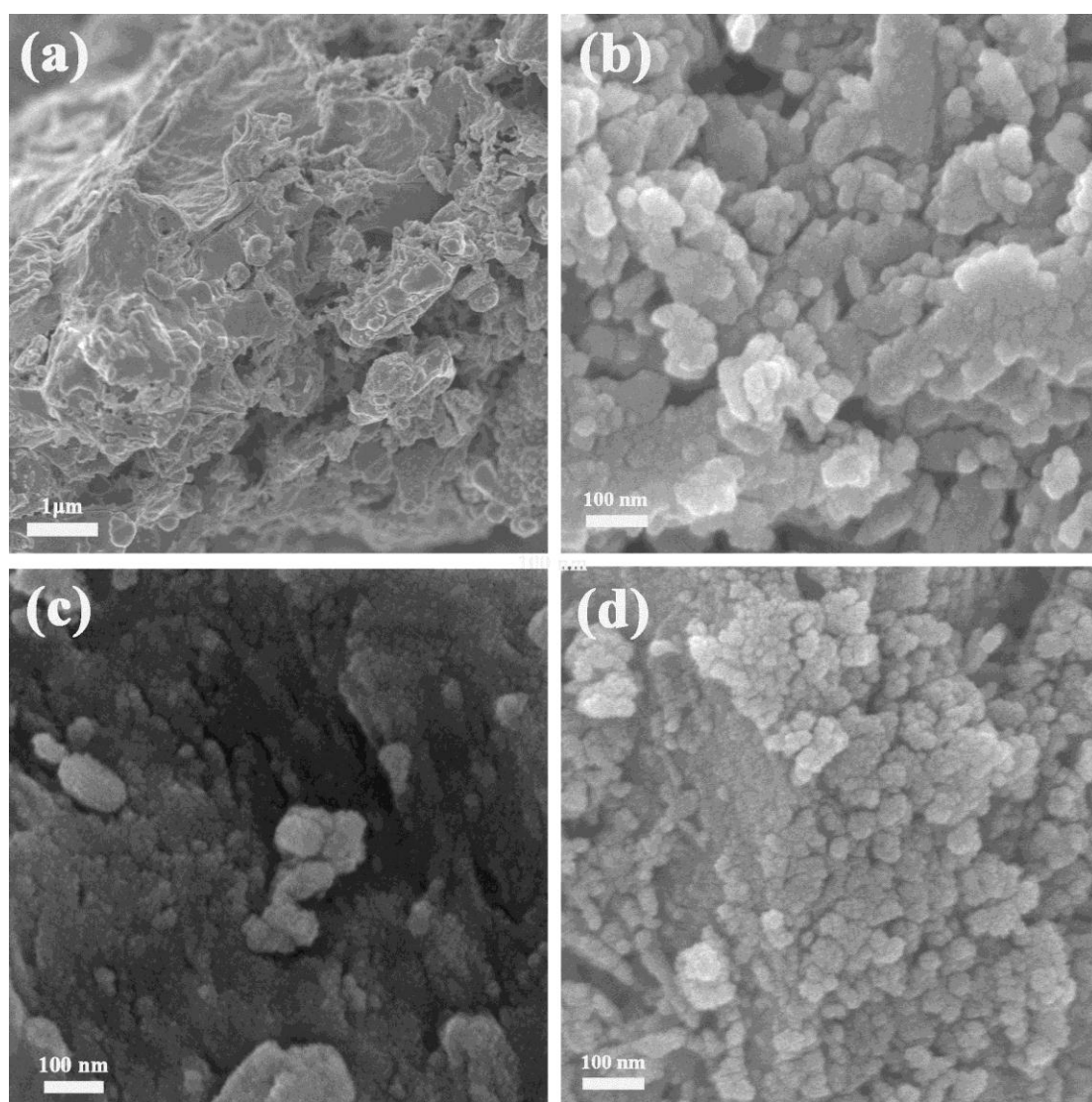


Fig. S3 SEM images of the as-prepared samples with different amount of ascorbic acid and PEG-400: (a) no ascorbic acid, 3 mL PEG-400; (b) 2 mmol ascorbic acid, 3 mL PEG-400; (c) no PEG-400, 3 mL ascorbic acid; (d) 2 mL PEG-400, 3 mmol ascorbic acid.

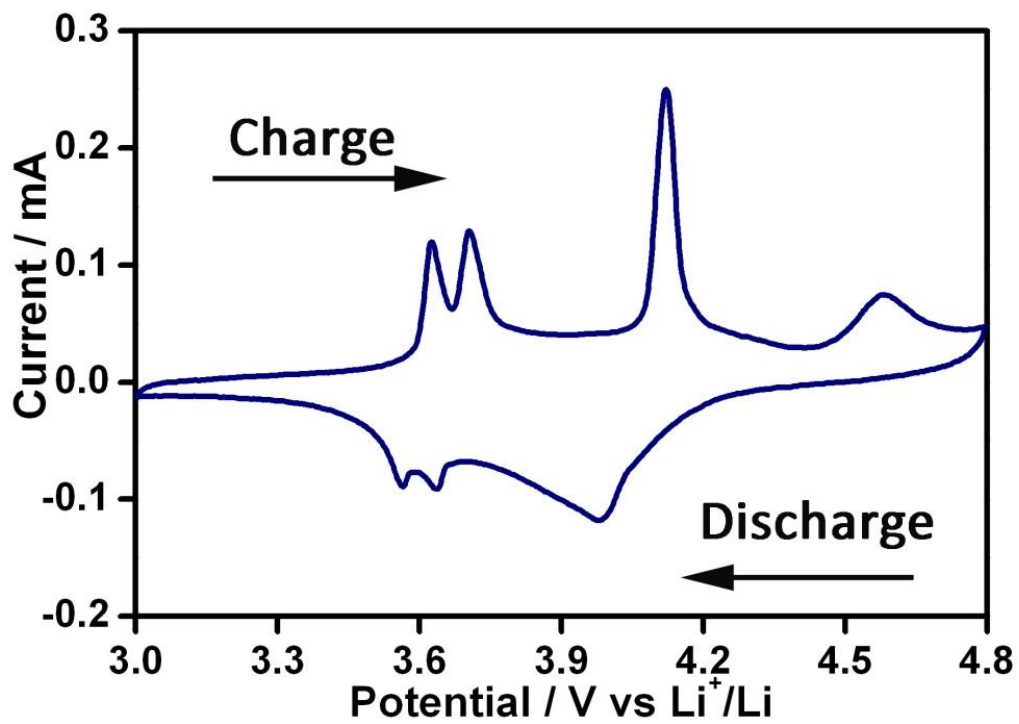


Fig. S4 Cyclic voltammograms of N-LVP at a scan rate of 0.2 mV/s in the potential range of 3.0–4.8 V.

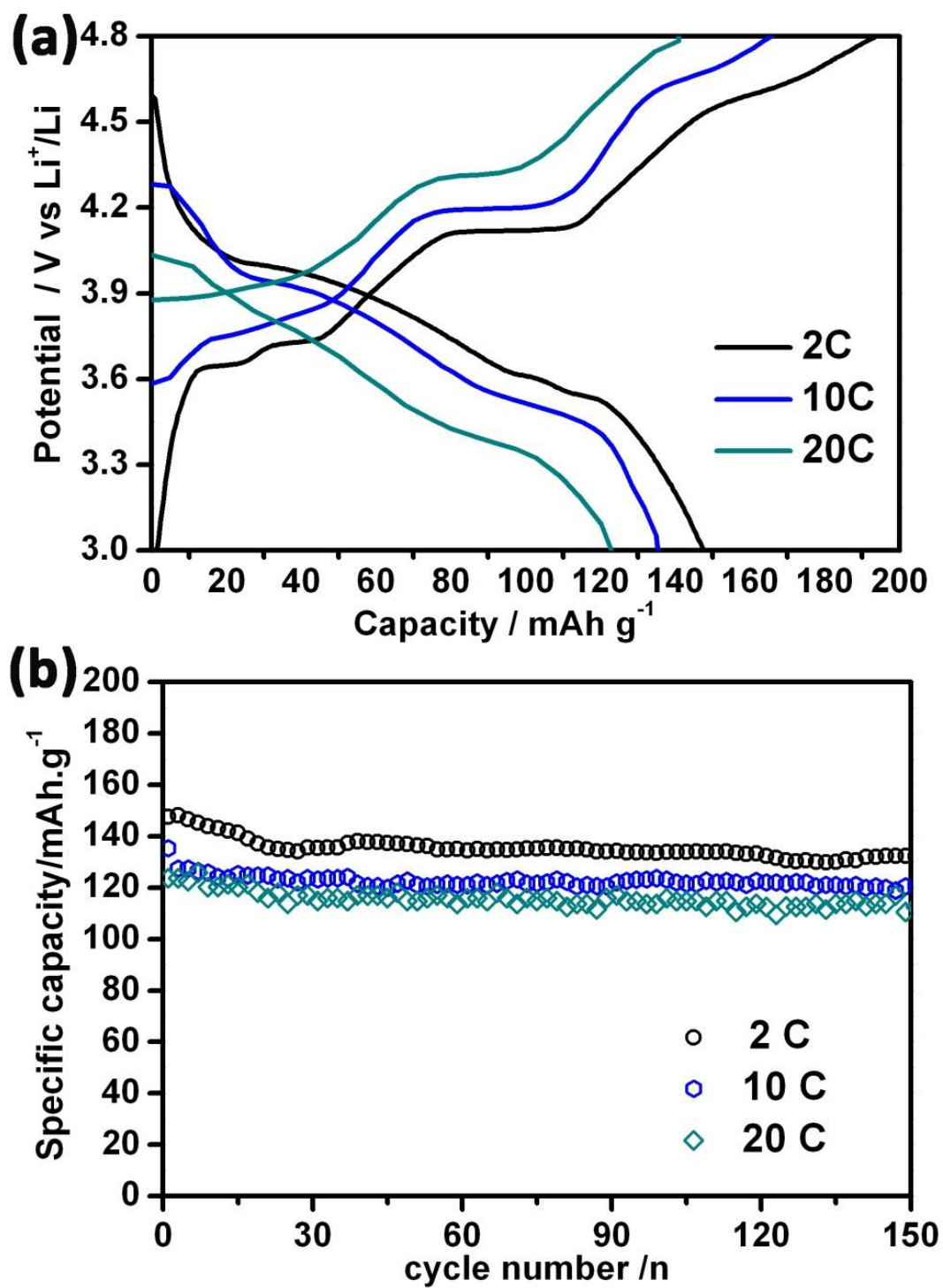


Fig. S5 (a) The initial charge/discharge profiles and (b) cycling performance of N-LVP at 2 C, 10 C, and 20 C.

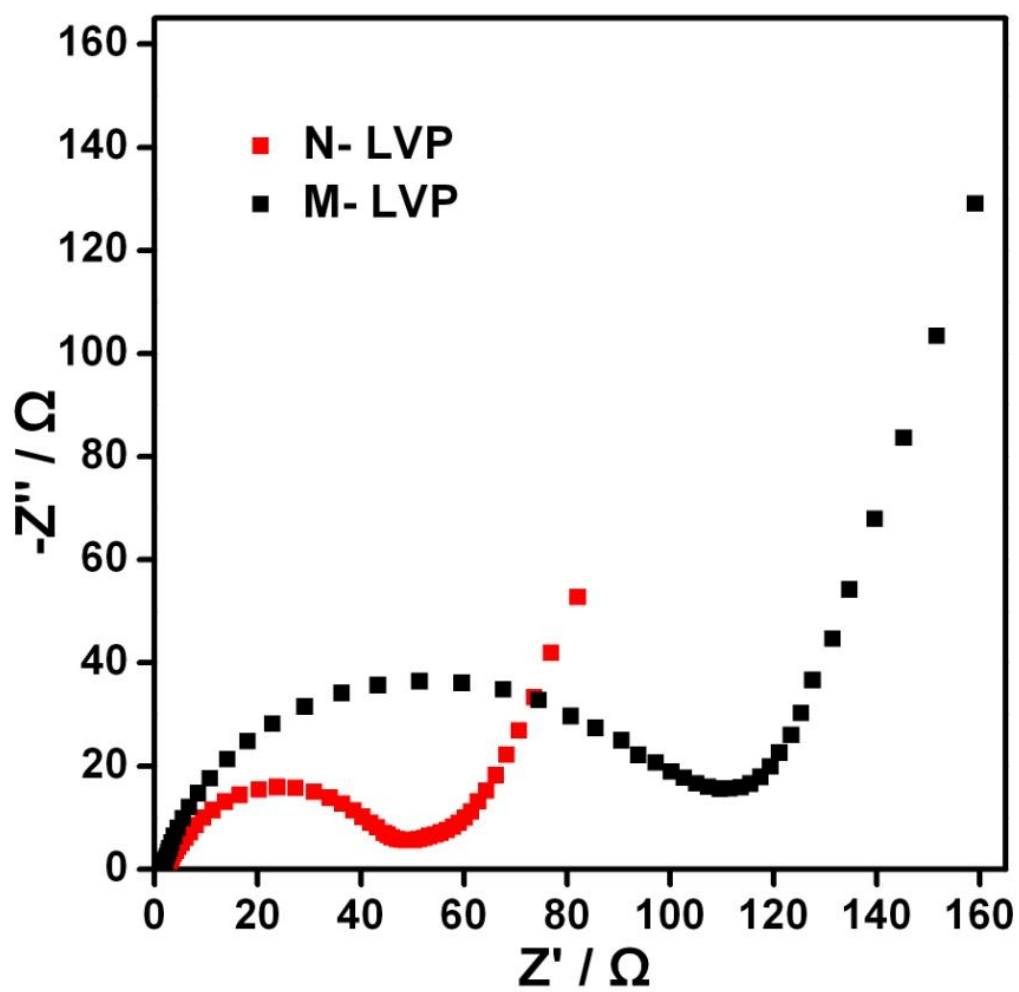


Fig. S6 Nyquist plots of N-LVP and M-LVP electrodes in freshly assembled cells.