Supplementary Materials

Table S1. The theoretical content of LFP and LVP in xLFP·yLVP composites.

	LFVP	3LFVP	5LFVP	8LFVP
n(LFP):n(LVP)	1:1	3:1	5:1	8:1
LFP wt%	27.90%	53.73%	65.93%	75.59%
LVP wt%	73.10%	46.27%	34.07%	24.41%

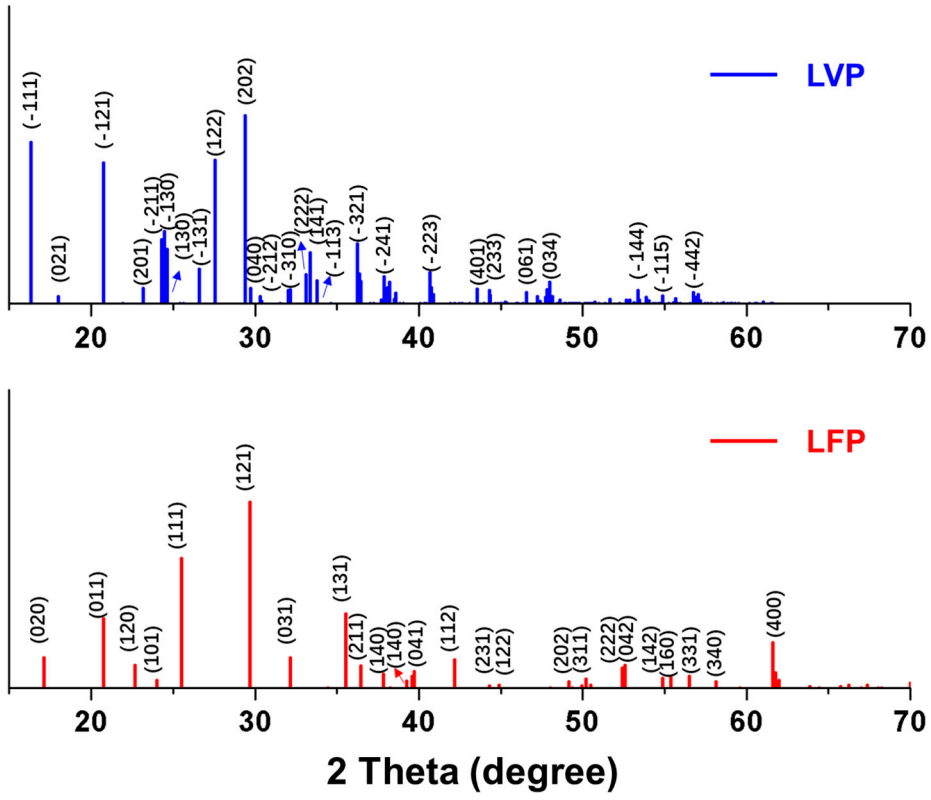

Figure S1. The XRD patterns of LFP and LVP

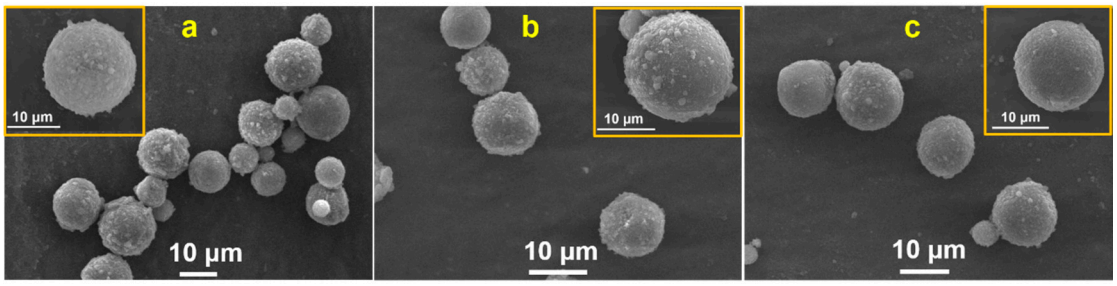

Figure S2. a, b and c) SEM images of LFVP/C, 3LFVP/C and 5LFVP/C, respectively.

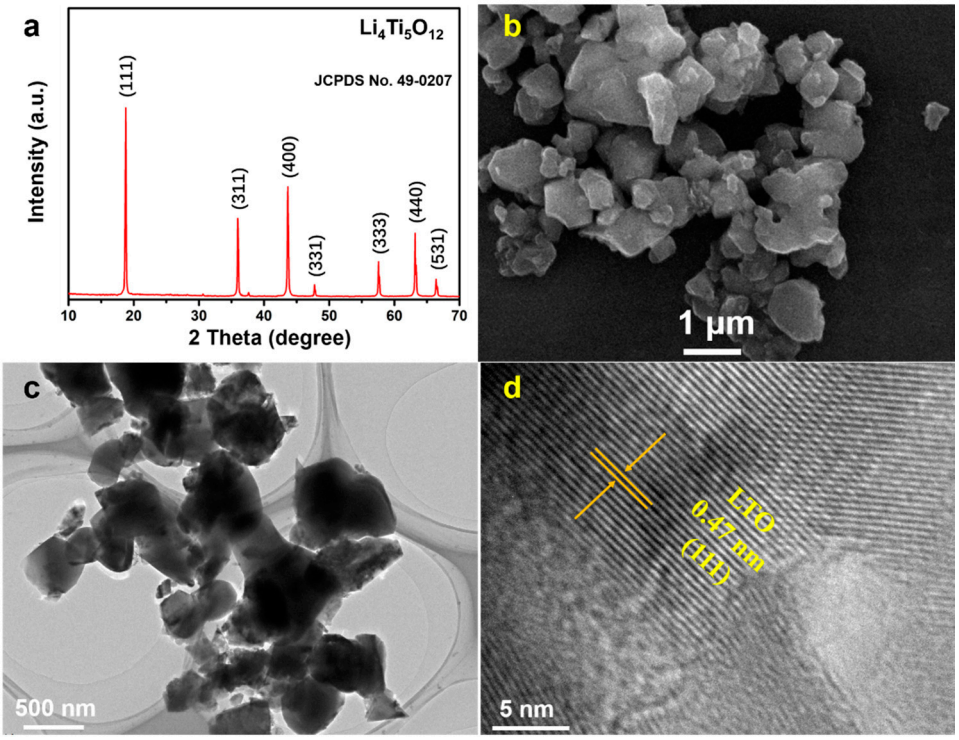

Figure S3. a) XRD pattern of LTO; b) SEM image of LTO; c and d) TEM and HRTEM images of LTO.

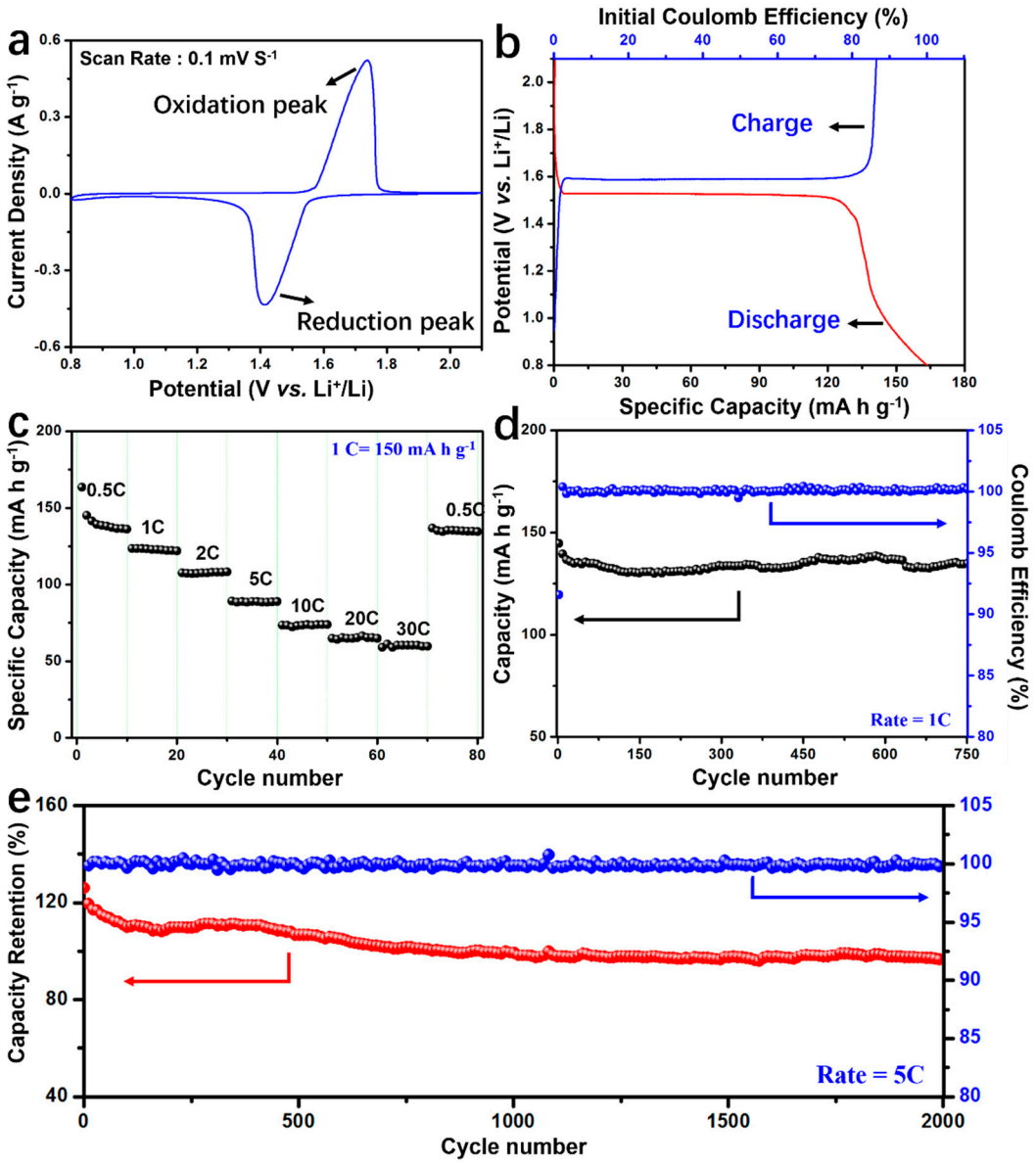

Figure S4. Li-ion storage capability of LTO estimated in the 0.8-2.2 V; a) CV curve; b) The galvanostatic charge–discharge curves at 0.2 C; c) Rate performance; d and e) Cycling performance at the rate of 1 and 5 C, respectively.