Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Information

LiV_3O_8 nanorods as cathode materials for high-power and long-life rechargeable lithium-ion batteries

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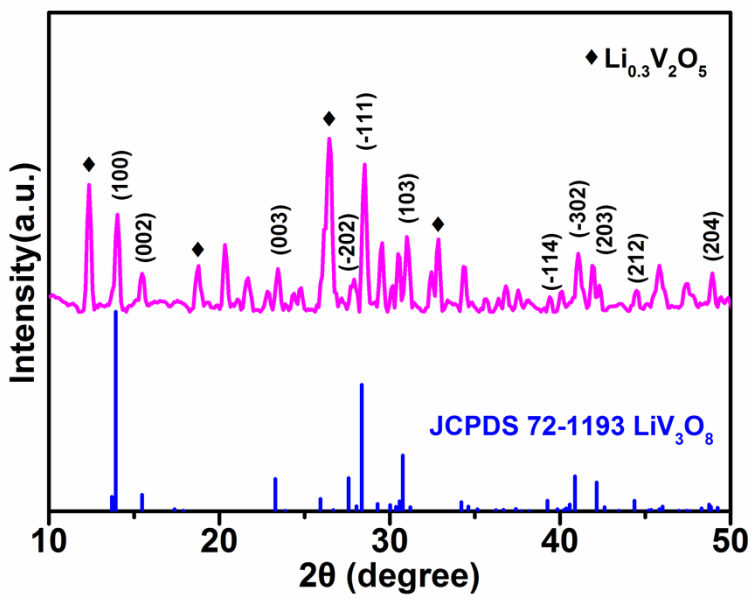

Fig. S1 XRD pattern of the bulk LiV_3O_8.

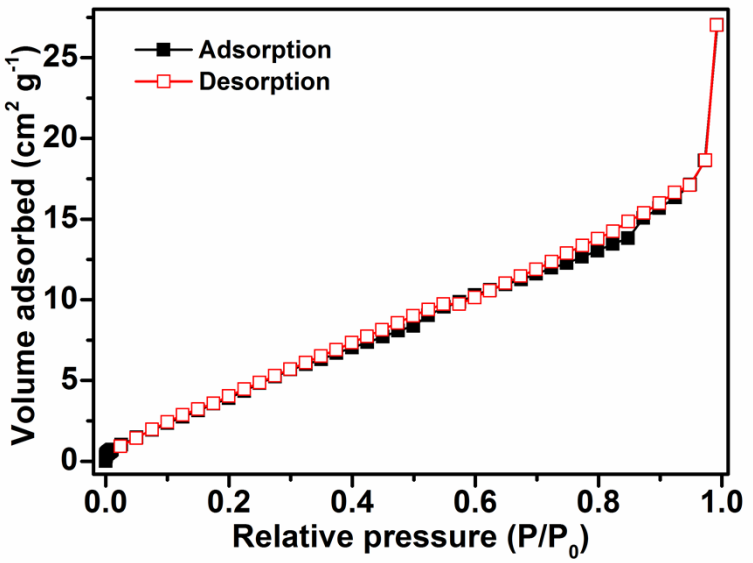

Fig. S2 N_2 adsorption/desorption isotherm of LiV_3O_8 nanorods.

Table S1 Impedance parameters of n-LVO and b-LVO calculated from equivalent circuit.

Sample	R_e (Ohm)	R_{ct} (Ohm)	Chi-squared
n-LVO	4.300	102.7	0.02467%
b-LVO	4.272	255.8	0.03636%

Table S2 linear fitting results for Warburg factor of n-LVO and b-LVO and the corresponding apparent diffusion coefficient.

Sample	σ	$D_{apparent}$ ($cm^2\ s^{-1}$)
n-LVO	10.95	2.918×10^{-11}
b-LVO	25.68	5.303×10^{-12}