
Supplementary Data

In-situ Li-In anode formation on the $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ solid electrolyte in all-solid-state battery

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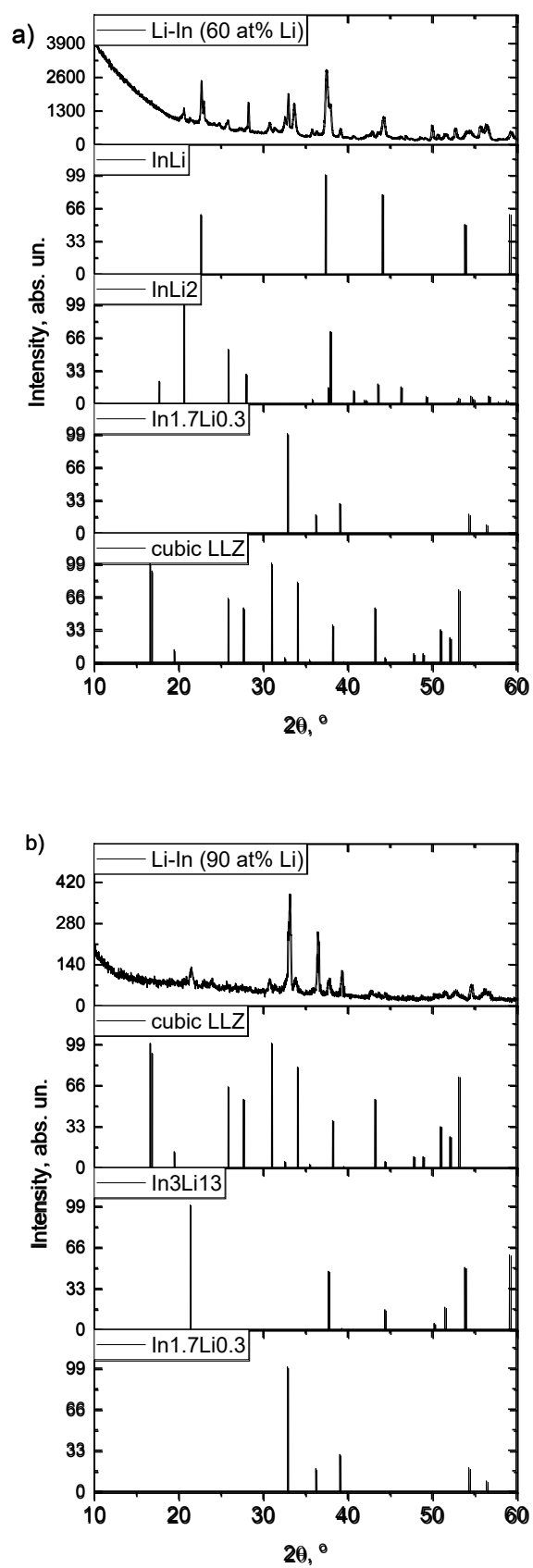


Figure S1. XRD data of Li-In anode with 60 (a) and 90 at% Li (b).

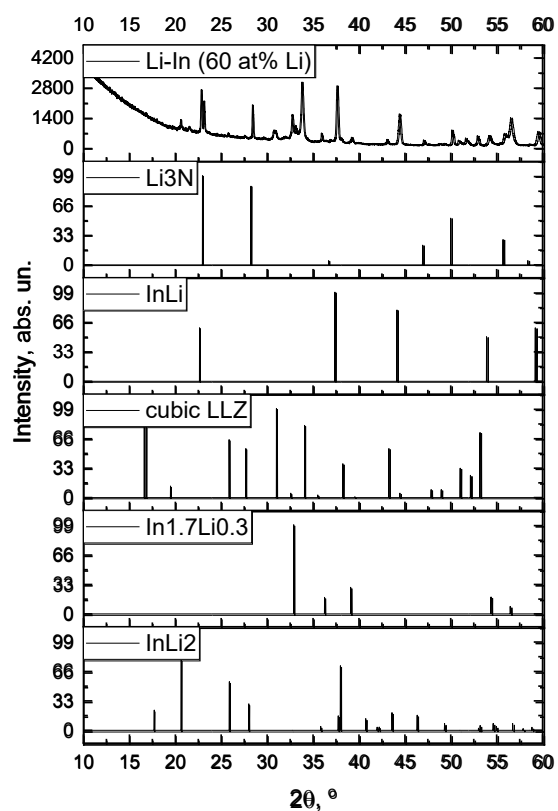


Figure S2. XRD data of Li-In anode with 60 at% Li after exposure on air.

Table S1. The fitting results of impedance plots at Figure 4b.

at % Li in Li-In alloy	R_{el} , $\Omega \text{ cm}^2$	R_1 , $\Omega \text{ cm}^2$	C_1 , pF
40	6	85	20
60	6	60	12
80	6	42	366
90	6	22	8

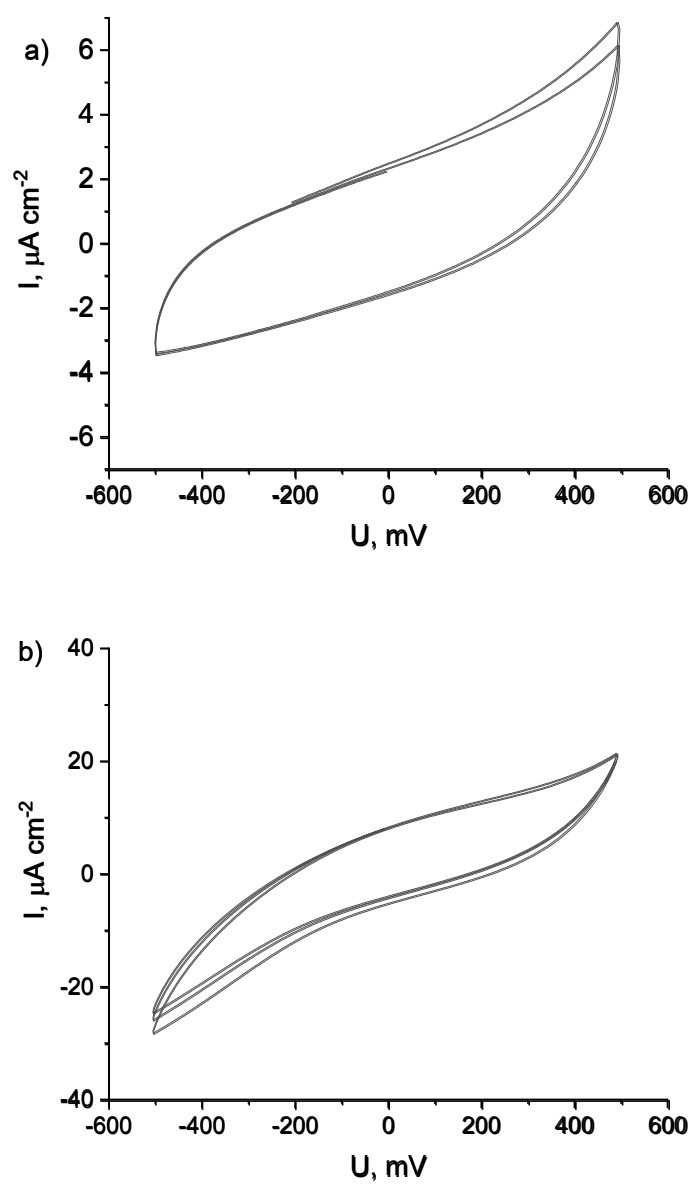


Figure S3. Cyclic voltammetry curves for (a) $\text{Li-In (18 at\% Li) | LLZcomp | Li-In (18 at\% Li)}$ and (b) Li | LLZcomp | Li cells with at scanning rate of 10 mV s^{-1} .