

Electronic Supplementary Information

Impact of intentional composition tuning on the sintering property of Ca-Bi co-doped

Li₇La₃Zr₂O₁₂ for co-fired solid-state battery

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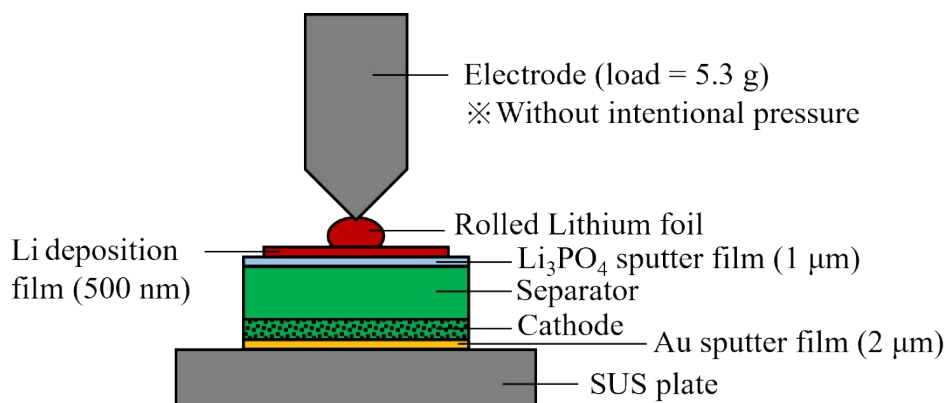


Figure S1 Schematic of test configuration.

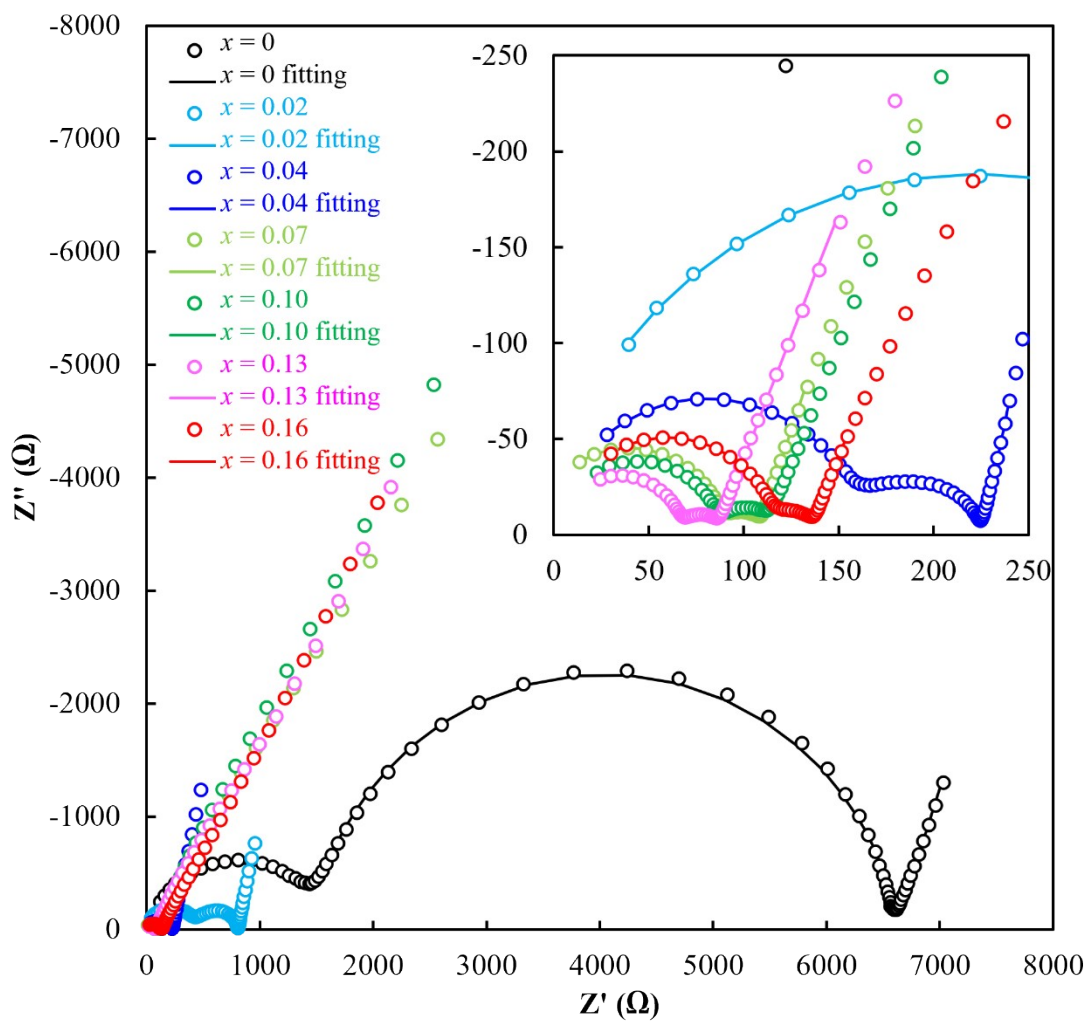


Figure S2 Nyquist plots measured at 298 K for LLZ-CaBi electrolytes.

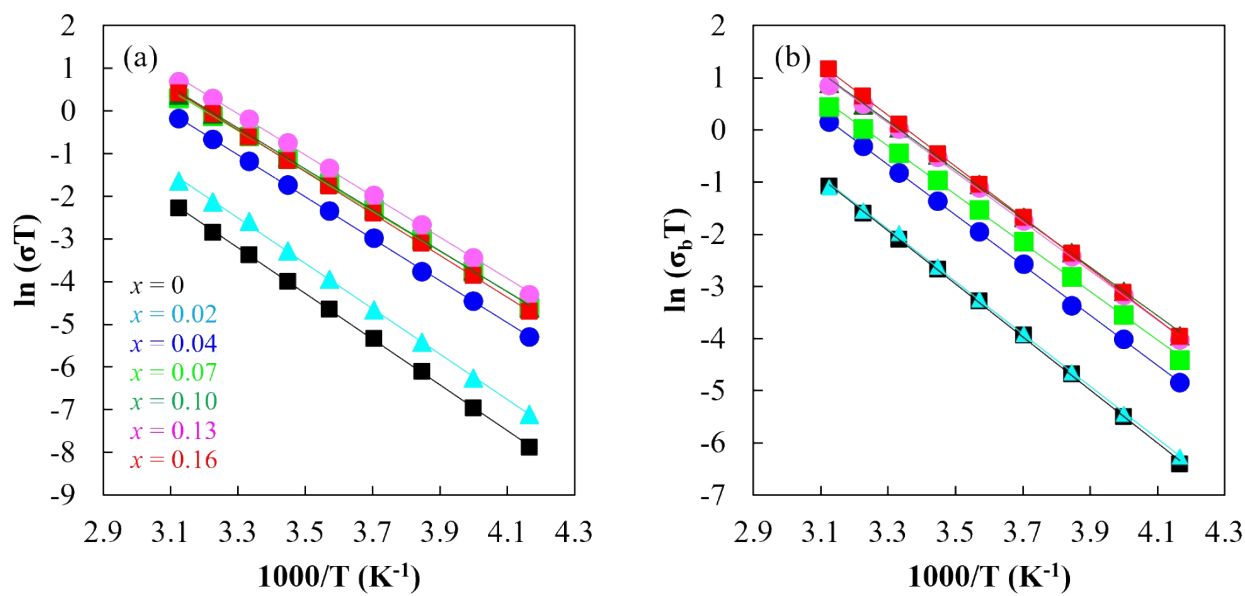


Figure S3 Arrhenius plots of (a) total ion conductivity and (b) bulk ion conductivity measured at 240–320 K.

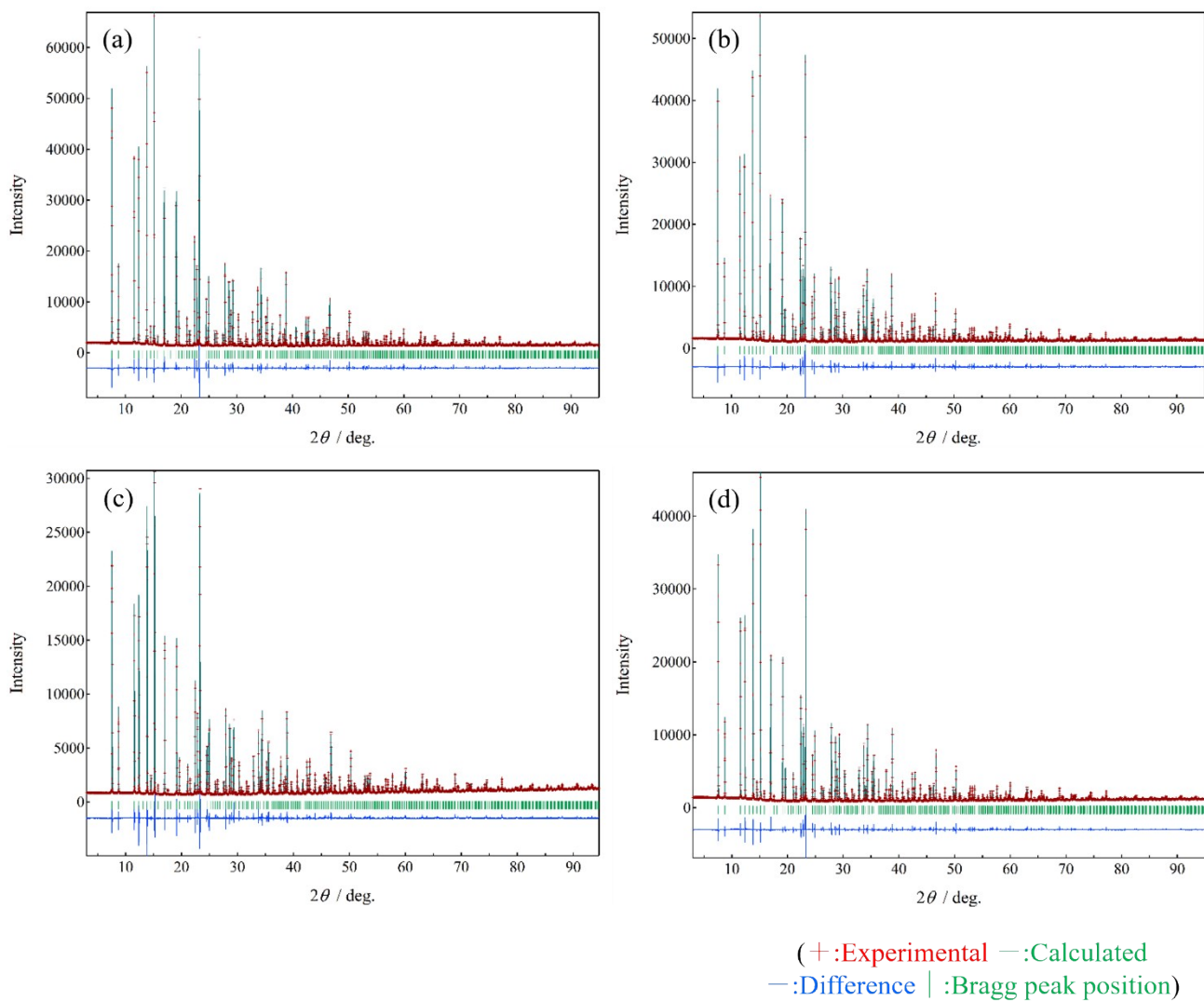


Figure S4 Rietveld refinement plots using synchrotron powder diffraction data for LLZ-CaBi at $x =$
 (a) 0, (b) 0.02, (c) 0.04, (d) 0.07.

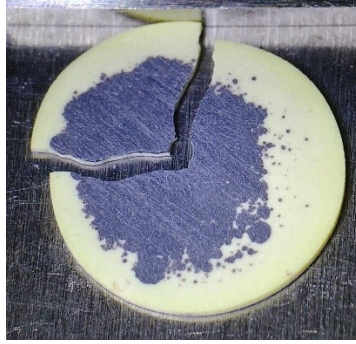


Figure S5 Photograph of the LLZ-CaBi electrolyte after direct contact with Li metal.