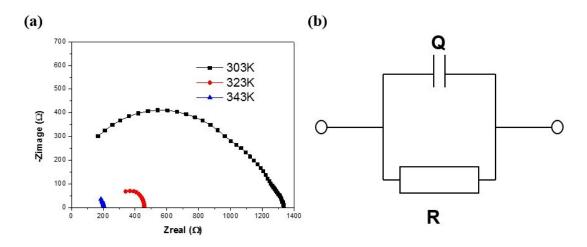
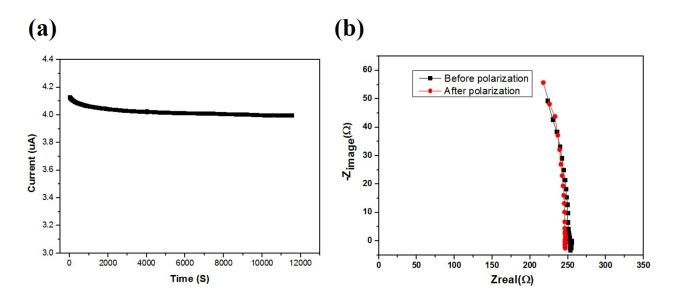
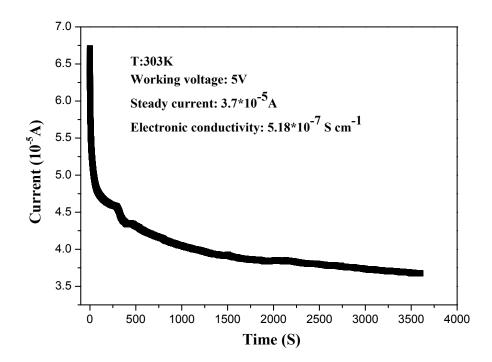
Supporting information of Lithium migration pathways at composite interface of LiBH₄ and two-dimensional MoS₂ enabling superior ionic conductivity at room temperature



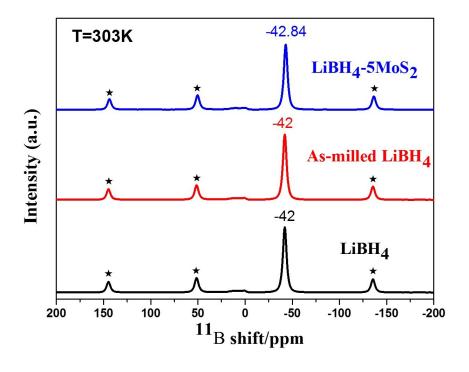
Supplementary Figure 1 (a) The Nyquist plots of the as-prepared LiBH₄-5MoS₂ composite at different temperatures. Dots are experimental results, while lines are fitted results with (RQ) equivalent circuit; (b) The equivalent circuit for AC impedance spectra.



Supplementary Figure 2 Transference number of LiBH₄-5MoS₂ measured by direct current polarization and EIS techniques



Supplementary Figure 3 DC polarization curve of the as-prepared $LiBH_4$ -5MoS₂ composite.



Supplementary Figure 4 MAS NMR spectra ¹¹B in as-prepared LiBH₄-MoS₂ composite, as-milled LiBH₄ and bulk LiBH₄. All spectra are obtained at 303K. Spinning sidebands are marked by asterisks.