

## Supplementary information:

### Elucidating the pressure induced enhancement of ionic conductivity in sodium *closo*-hydroborate electrolytes for all-solid-state batteries

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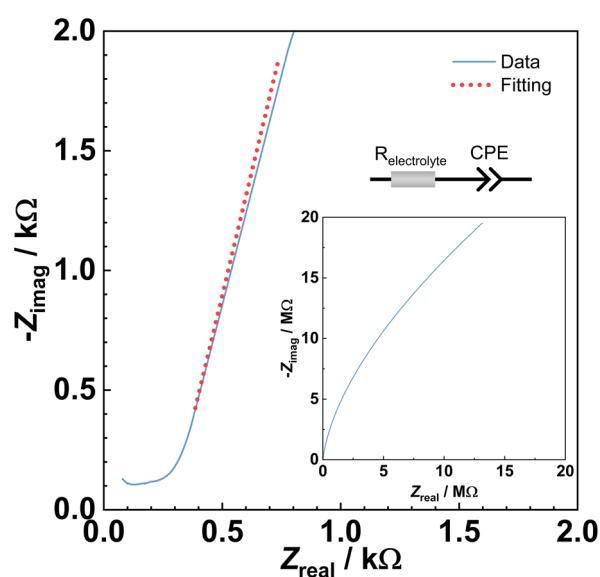


Figure S 1: Exemplary EIS spectrum measured at 25 °C from 1:1 sample pressed at 2080 MPa. The equivalent circuit, which is composed of a resistance in series with a CPE element, is indicated in the graph. Here only the linear part of the spectrum below 1 MHz was used for the fitting. Due to the high conductivity, no semicircle from the electrolyte is observable and the interception of the linear fit with the real axis in the Nyquist plot is the resistance from the electrolyte  $R_{\text{electrolyte}}$  (Here the resistance from the instrument is considered to be negligible).

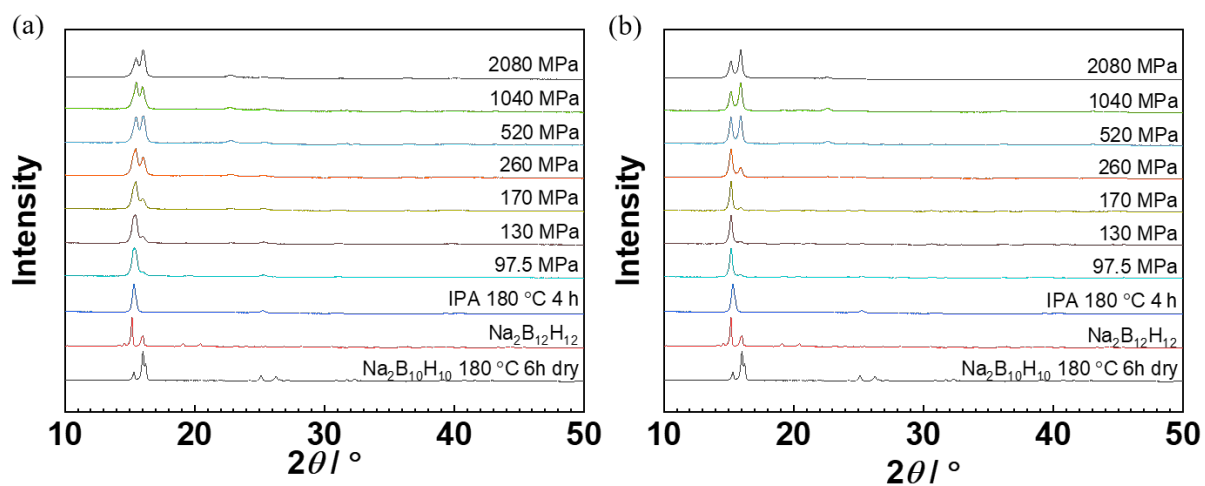


Figure S 2: XRD patterns after EIS measurement for (a) 1:1 and (b) 1:3 samples. The contacting electrodes used were In foils.