

Supplementary information

High performance NASICON ceramic electrolytes produced by tape-casting and low temperature hot-pressing: towards sustainable all-solid-state sodium batteries operating at room temperature

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Figure S1 shows green-state ceramic pellets obtained after tape-casting and cutting (14 mm diameter; 200 μ m thick); overlapped pellets to be introduced into a mold; hot-pressed pellets with dimensions according to the used mold (15 mm diameter; 1.1 mm thick); sintered pellet (13 mm diameter; 1 mm thick).

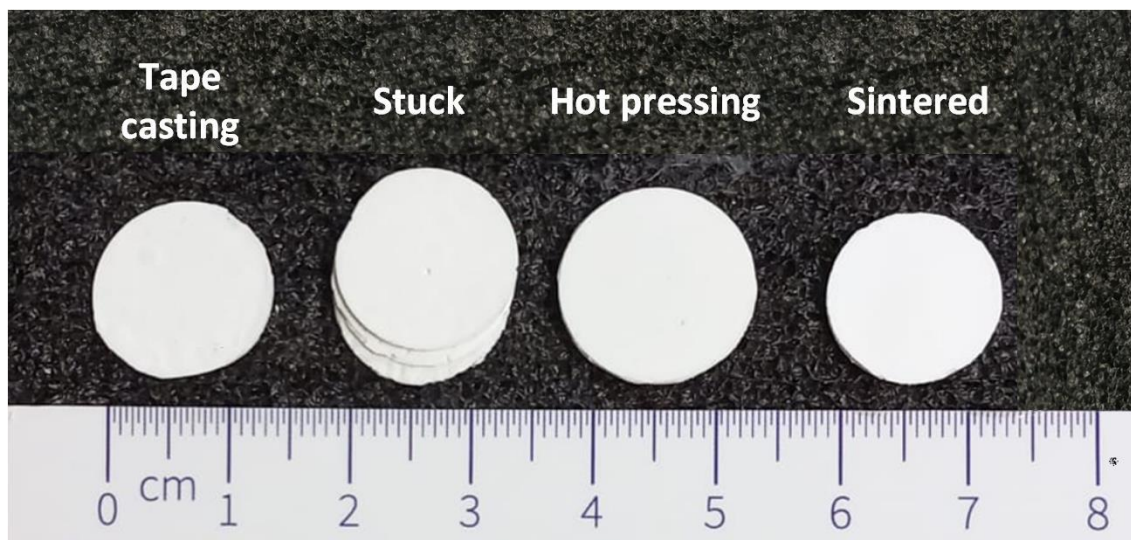


Figure S1. Ceramic pellets obtained during the different stages associated to the fabrication of the solid-state electrolyte.

Figure S2 presents a scheme corresponding to the half cell assembled in order to evaluate the electrochemical behavior of the proposed solid-state electrolyte. In this case, a stainless-steel coin cell (CR2032) Na/ NASICON/ FePO_4 is assembled in argon atmosphere by applying a controlled pressure (800 psi).

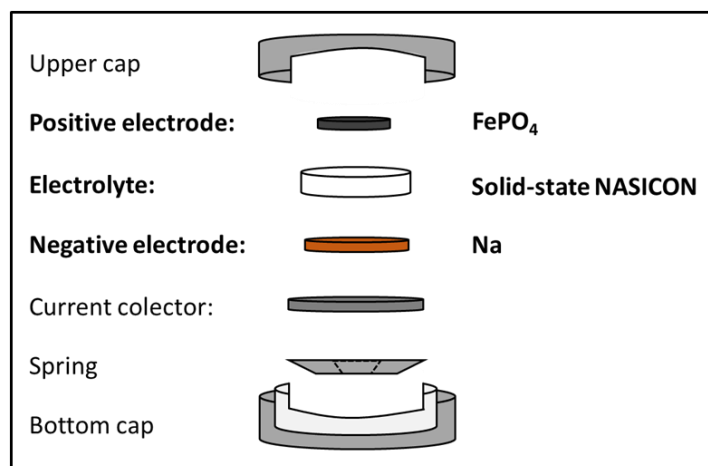


Figure S2. Scheme of the half-cell assembly process