

Supporting Information for

**Preparation of a single-phase all-solid-state battery via the crystallization of the
amorphous sodium vanadium phosphate**

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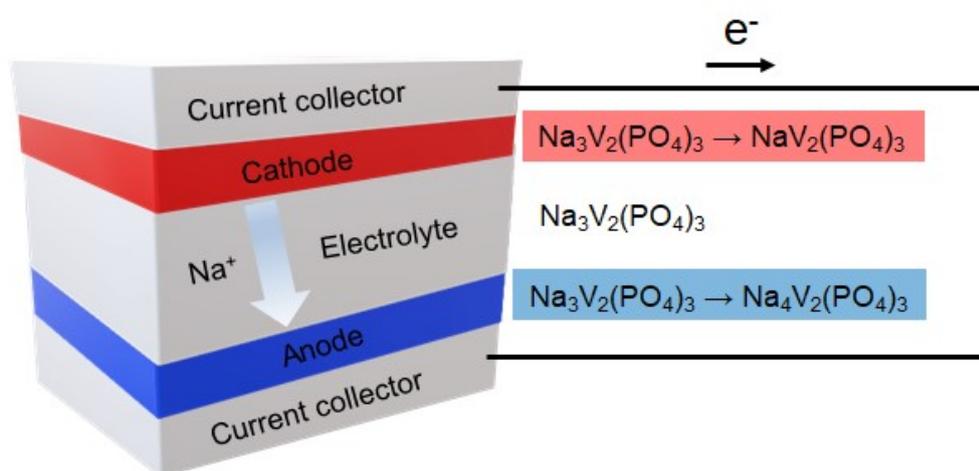


Figure S1. Schematic of the Pt/NVP/Pt single-phase cell.

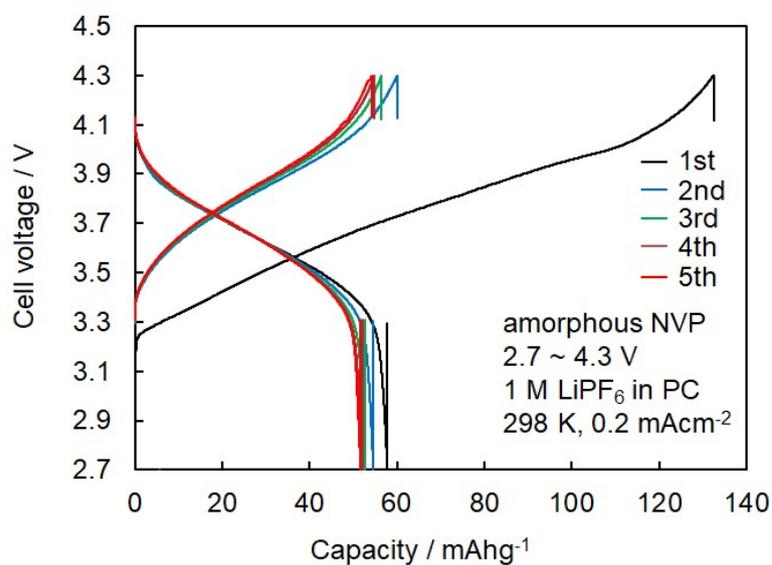


Figure S2. Charge-discharge curves for the half cell (positive electrode) using amorphous NVP and organic liquid electrolyte.

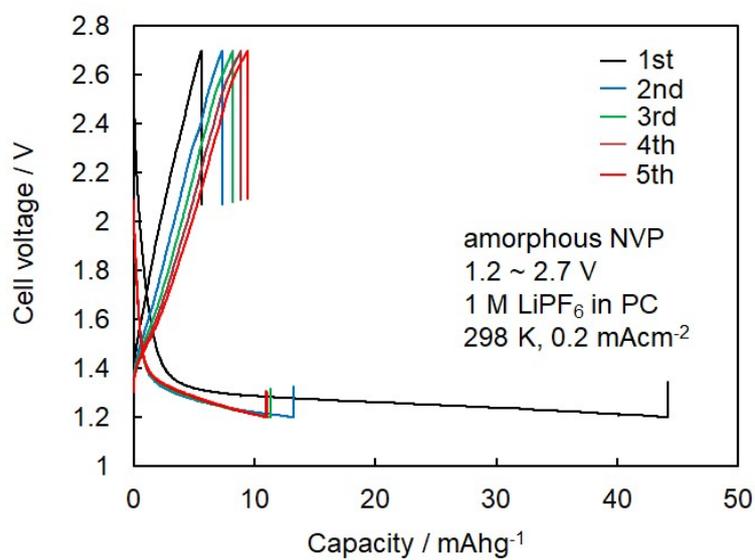


Figure S3. Charge-discharge curves for the half cell (negative electrode) using amorphous NVP and organic liquid electrolyte.

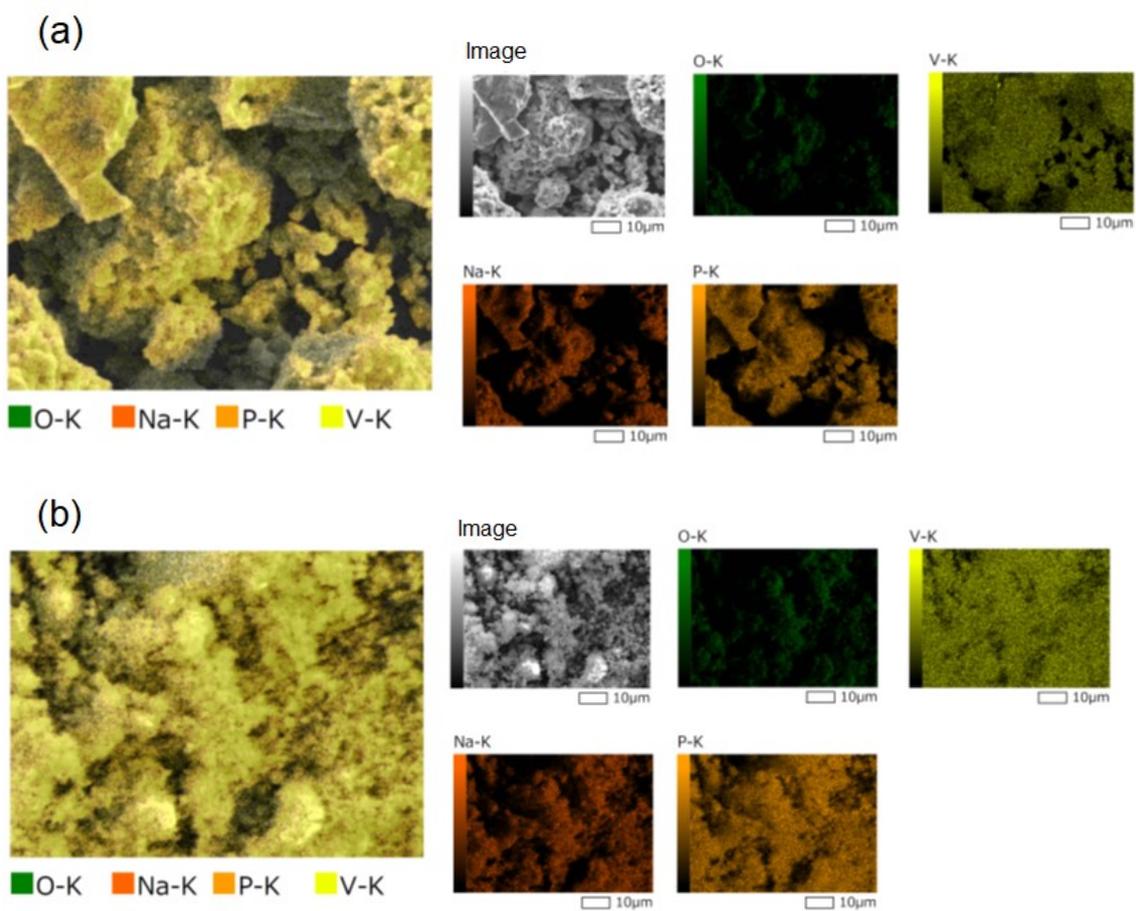


Figure S4. (a) EDS mapping of the crystalline NVP powder. (b) EDS mapping of the amorphous NVP powder.

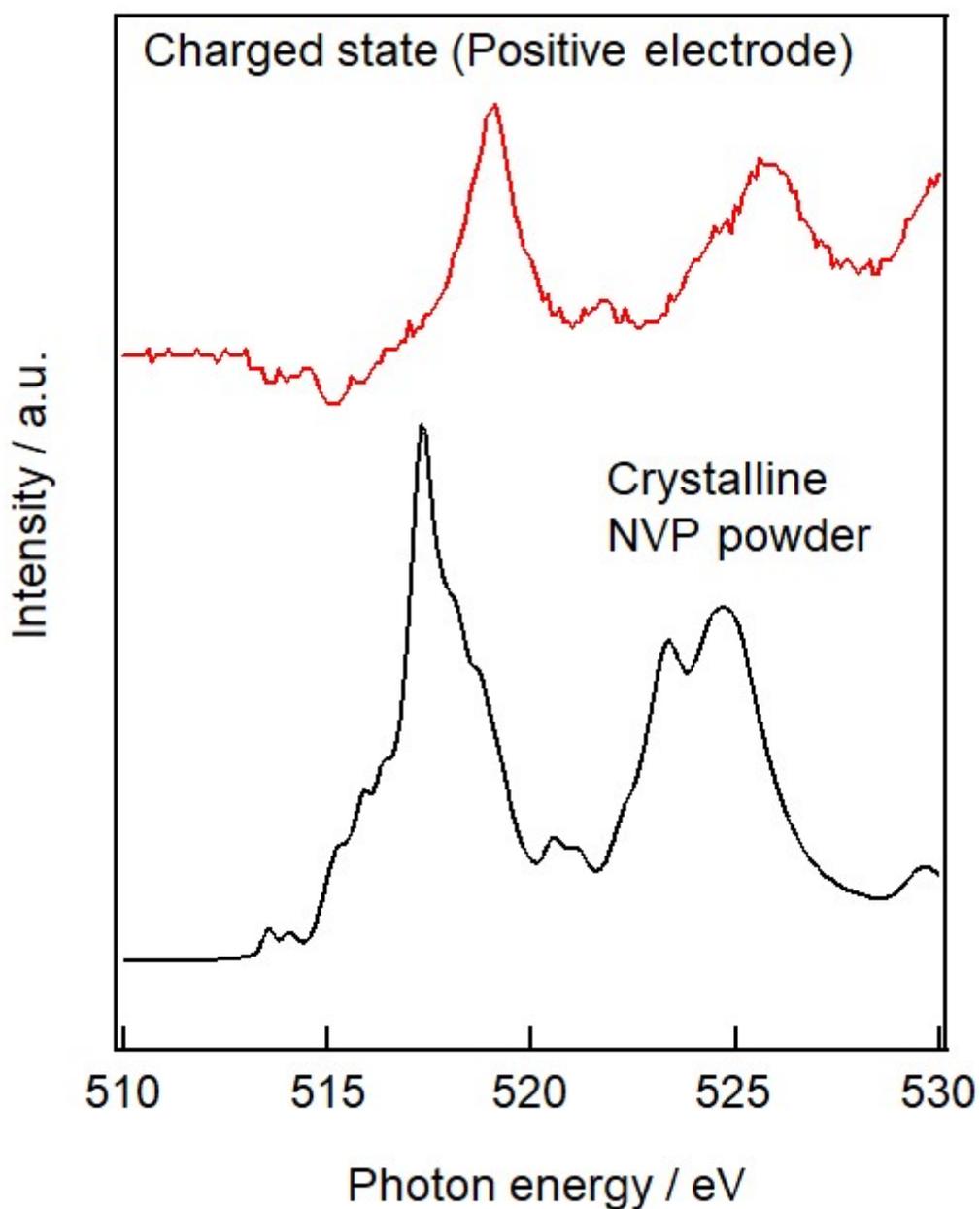


Figure S5. V L-edge XAS spectra of the crystalline NVP. Bottom spectrum shows the V L-edge spectrum of the crystalline NVP powder. The above spectrum shows the V L-edge spectrum of the positive electrode surface of the all-solid-state single-phase battery after charge.