

Supplementary Information

Methanol derived high-performance Na₃V₂(PO₄)₃/C: From kilogram-Scale Synthesis to pouch cell Safety Detection

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Fig. S1. Electronic images of M-NVP/C samples weighed

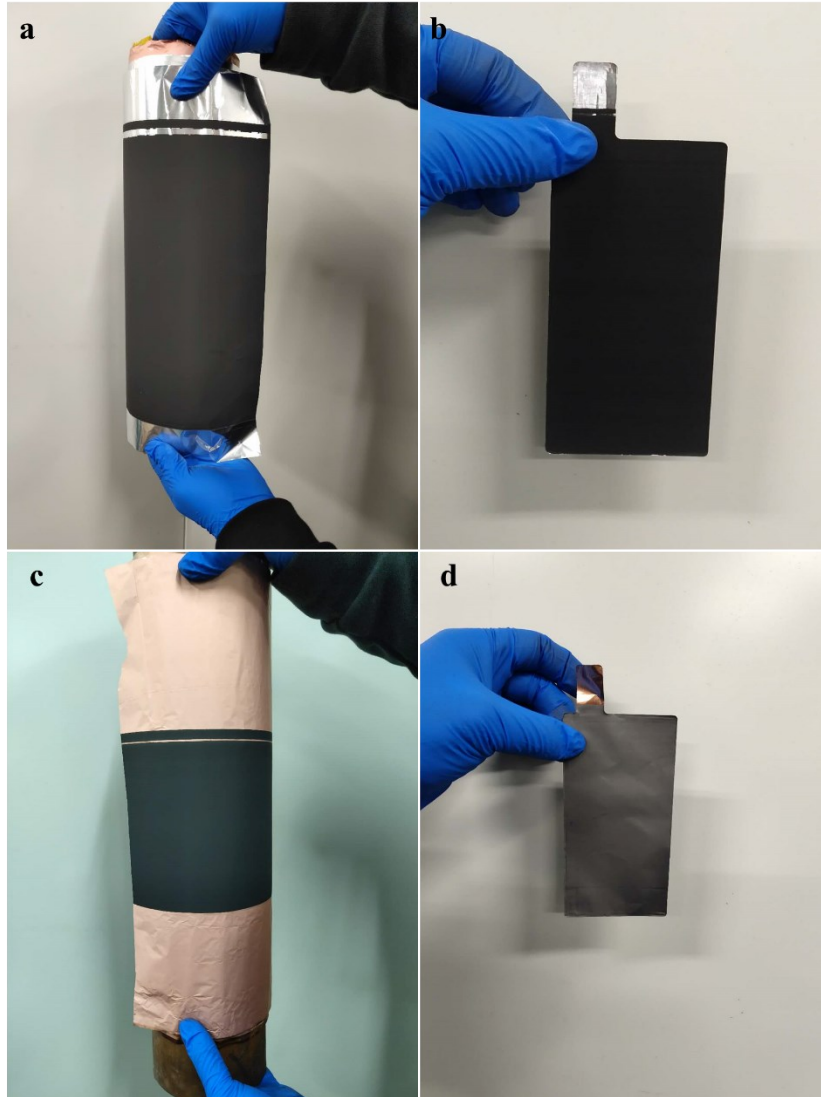


Fig. S2. a, b) Electronic images of the NVP cathode pole pieces; c, d) Electronic images of the HC anode pole pieces.

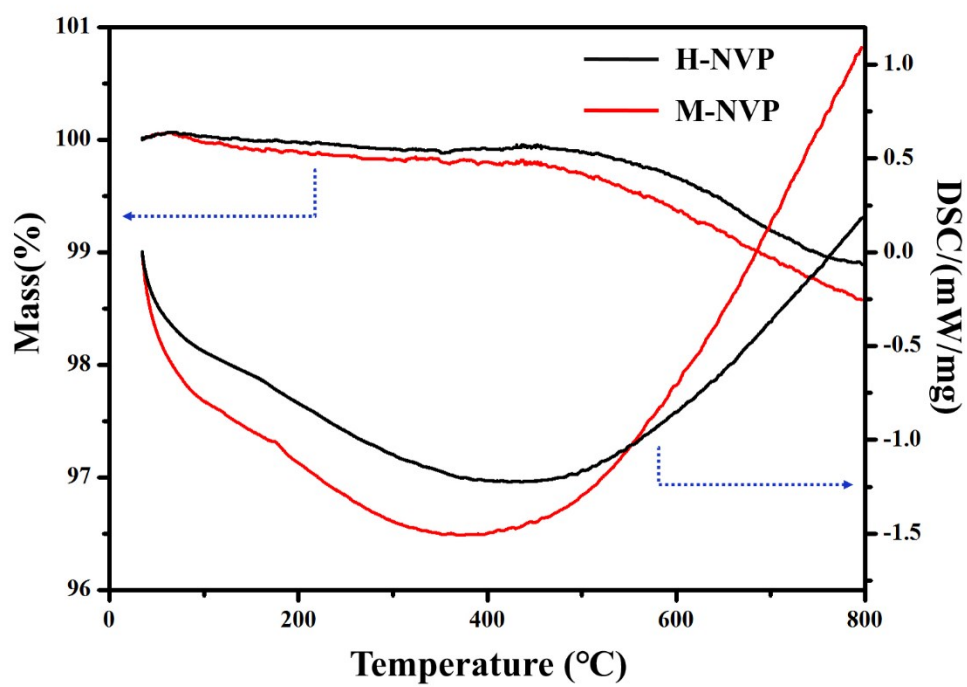


Fig. S3. The TG-DSC curve of M-NVP/C and H-NVP/C

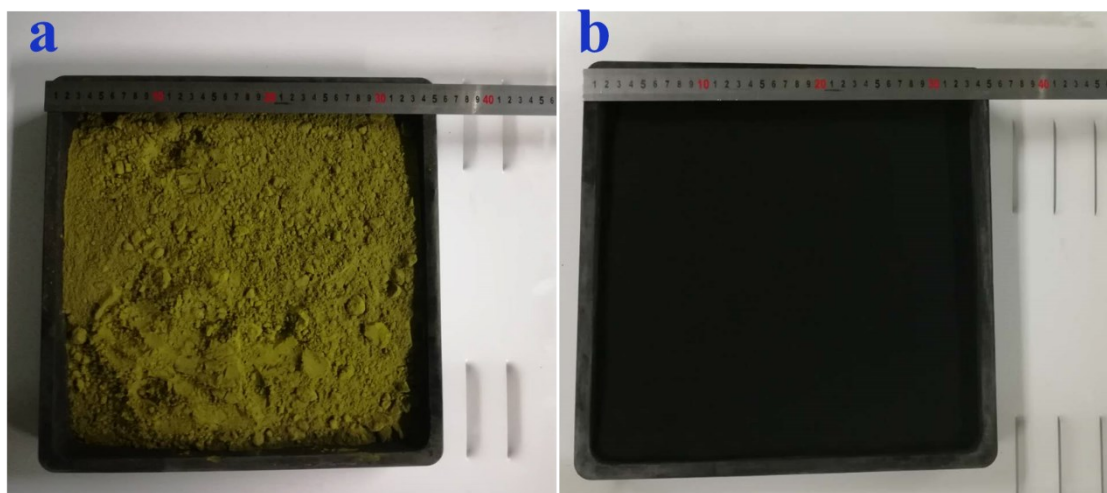


Fig. S4. a, b) Electronic images of the precursor and final product in the mullite sagger, respectively.

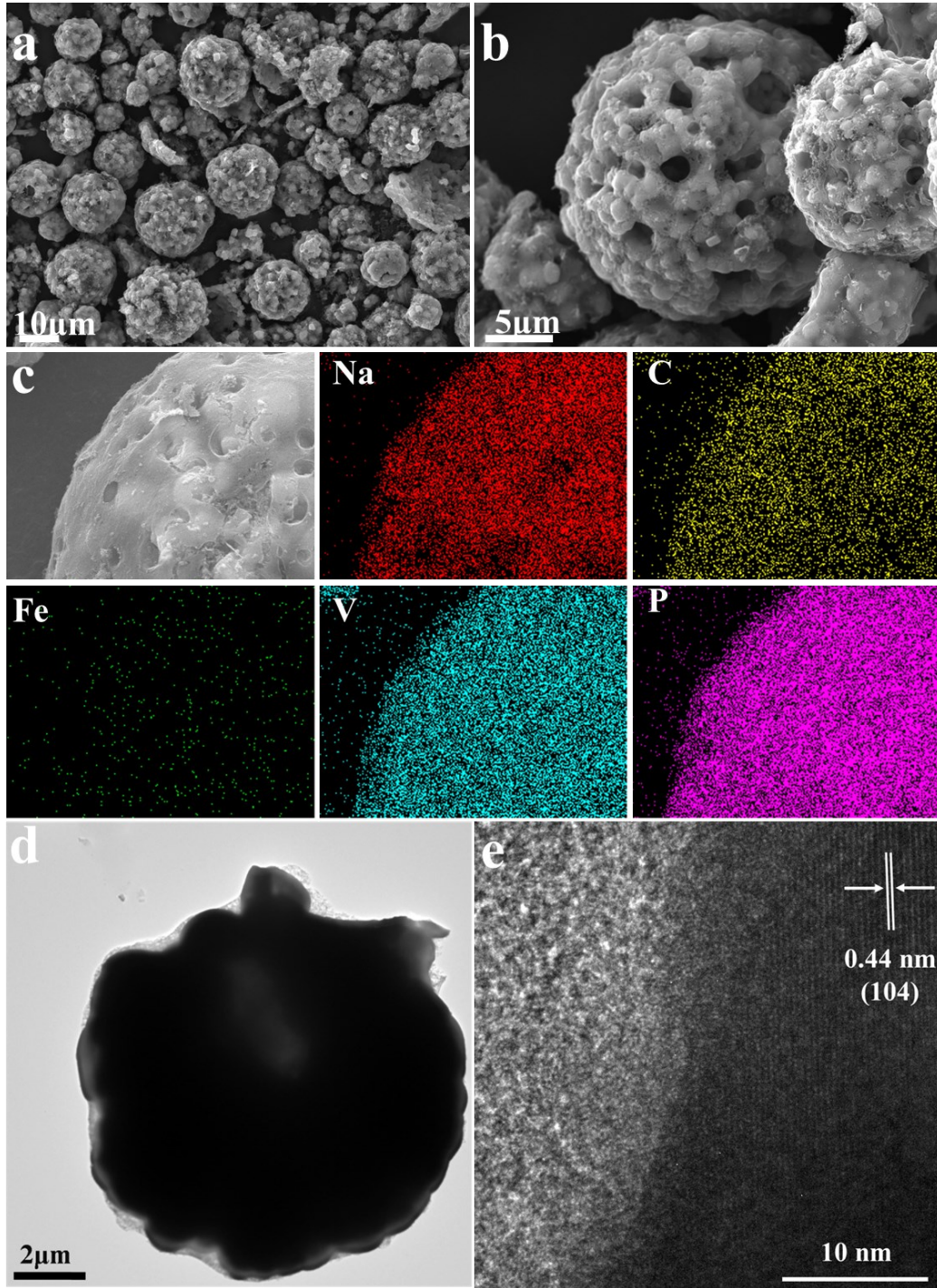


Fig. S5. a, b and c) SEM images of H-NVP/C; The accompanying diagram of (c) is the corresponding EDS elemental mapping; TEM (d) and HRTEM(f) images of H-NVP/C.

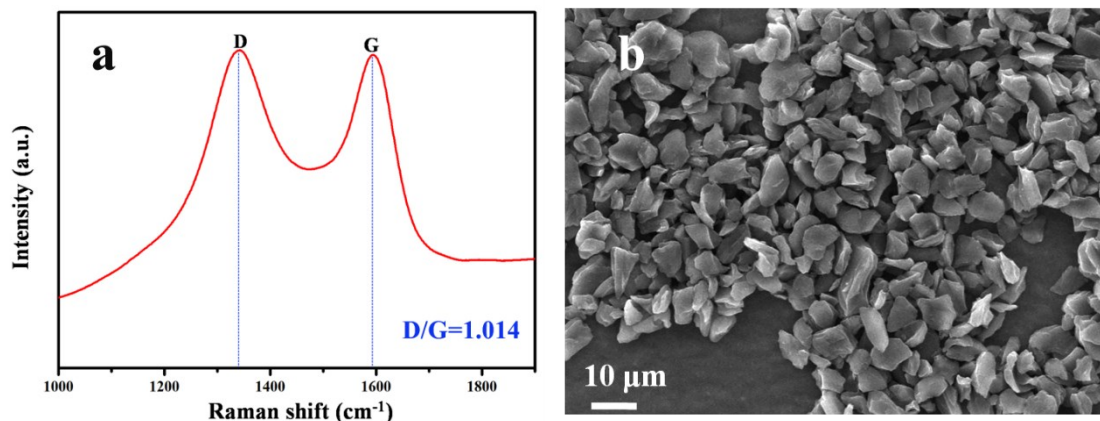


Fig. S6. a) Raman spectra of commercial hard carbon; a) SEM image of hard carbon

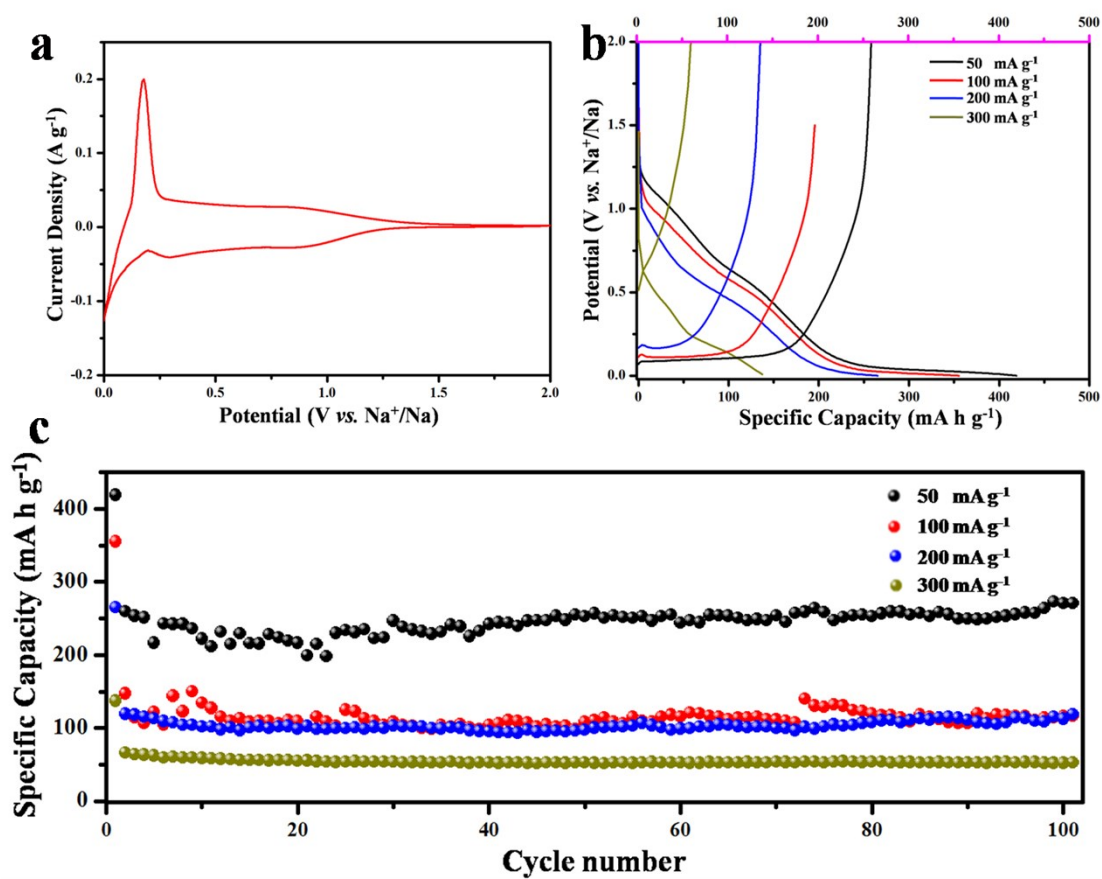


Fig. S7. a) The CV curves of hard carbon electrodes in the potential ranging from 0.01 to 2V versus Na/Na⁺ at a scan rate of 0.1 mV s⁻¹; b) Galvanostatic discharge curves of hard carbon at various current density from 50 mA g⁻¹ to 300 mA g⁻¹; c) Cycling performance of hard carbon electrodes at various current density from 50 mA g⁻¹ to 300 mA g⁻¹.