

Supporting Information

Core@Shell Sb@Sb₂O₃ Nanoparticles Anchored on 3D Nitrogen-doped Carbon

Nanosheets as Advanced Anode Materials for Li-ion Batteries

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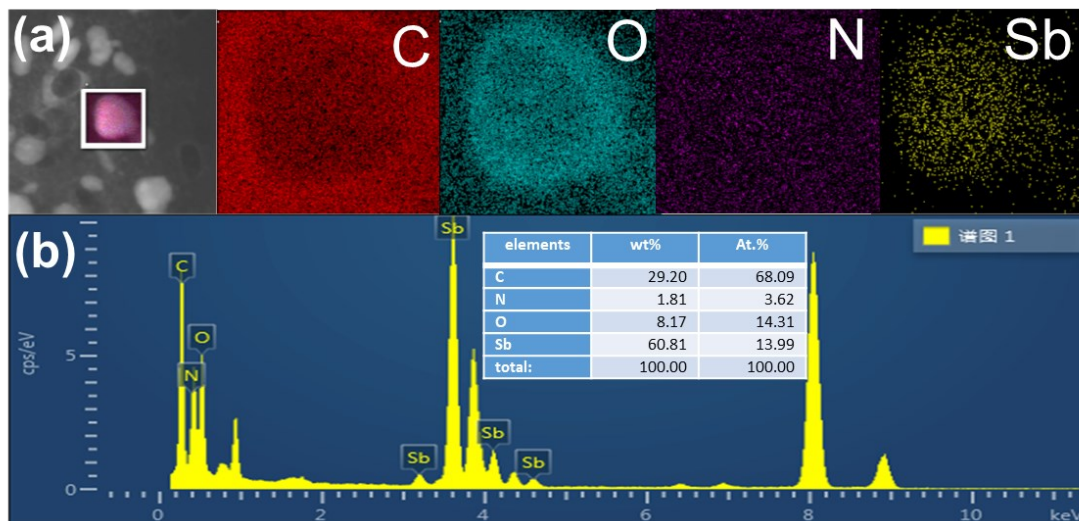


Figure S1. (a) EDX elemental mappings and (b) elemental analysis of Sb@Sb₂O₃/3DNC.

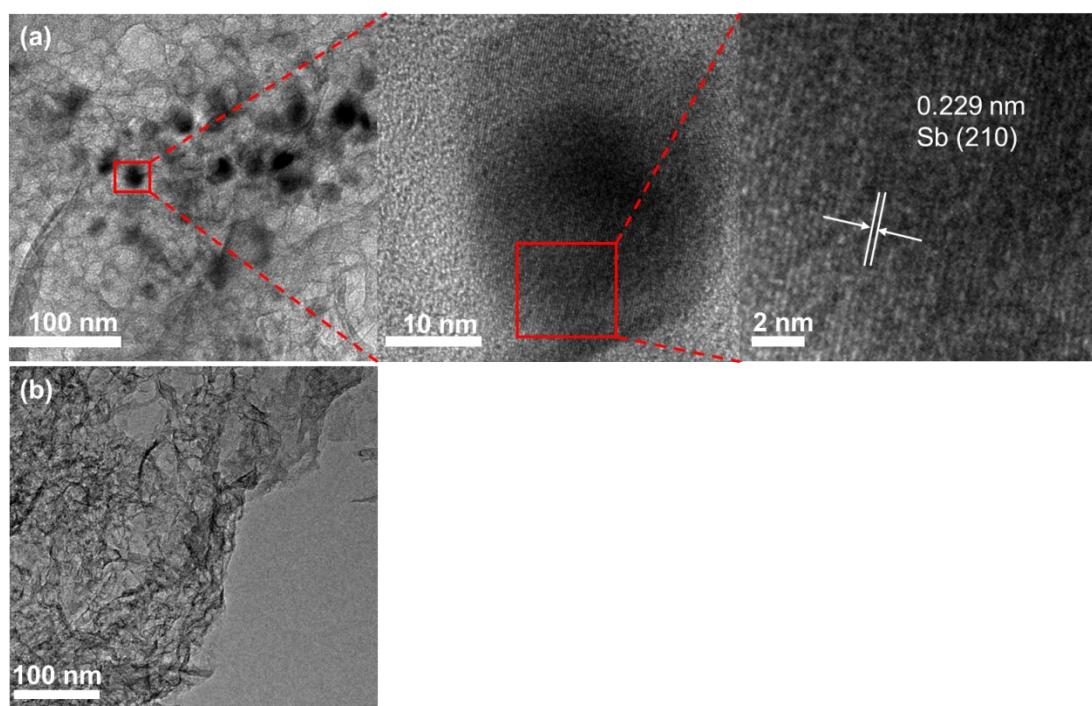


Figure S2. TEM and HRTEM images of (a) Sb/3DNC and (b) 3DNC.

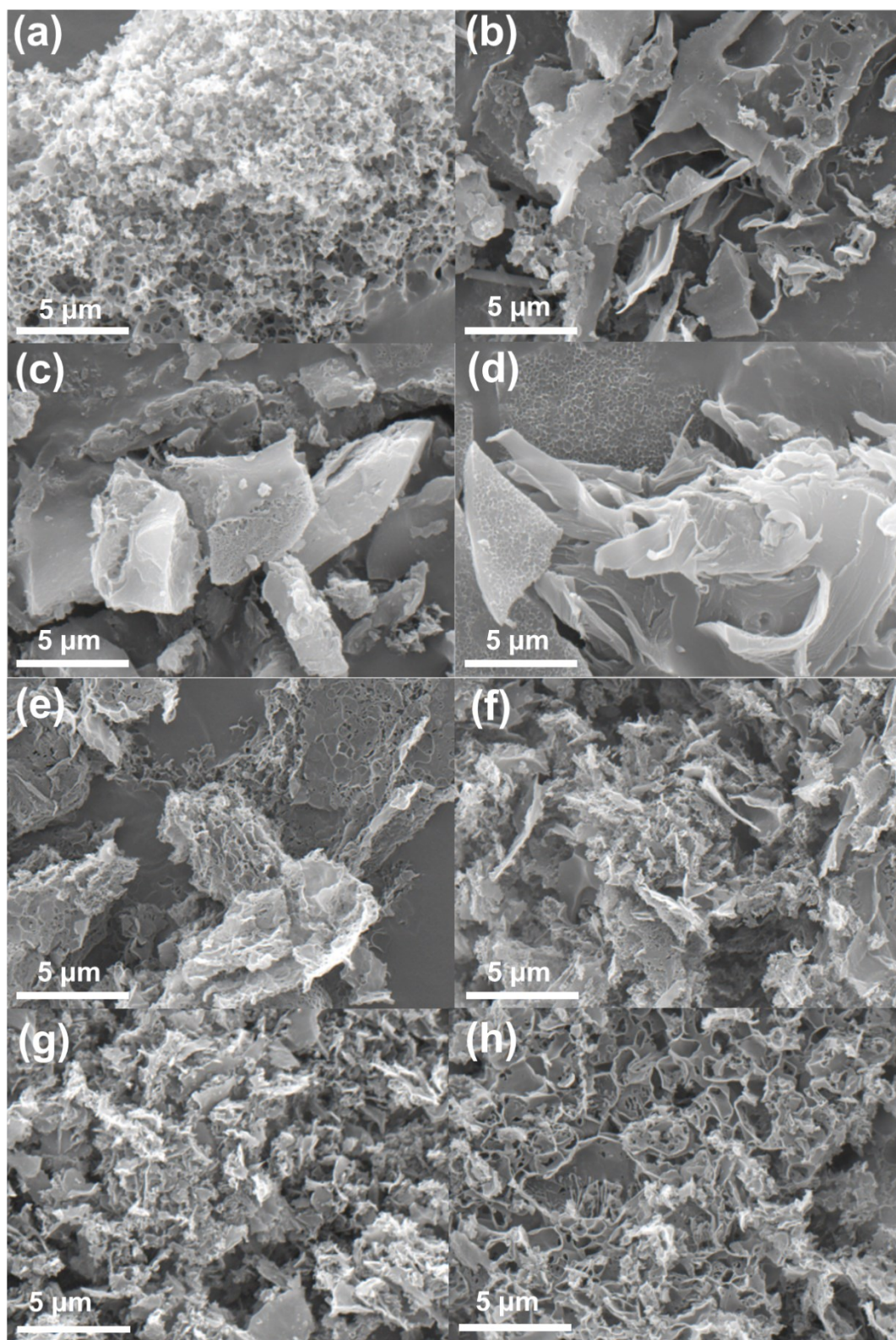


Figure S3. SEM images of (a) Sb@Sb₂O₃/3DNC; (b) Sb@Sb₂O₃/3DNC-noNaCl; (c) Sb@Sb₂O₃/3DNC-EV; (d) Sb@Sb₂O₃/3DNC-noNaCl-EV; (e) NC; (f) Sb@Sb₂O₃/C; (g) Sb/3DNC and (h) 3DNC

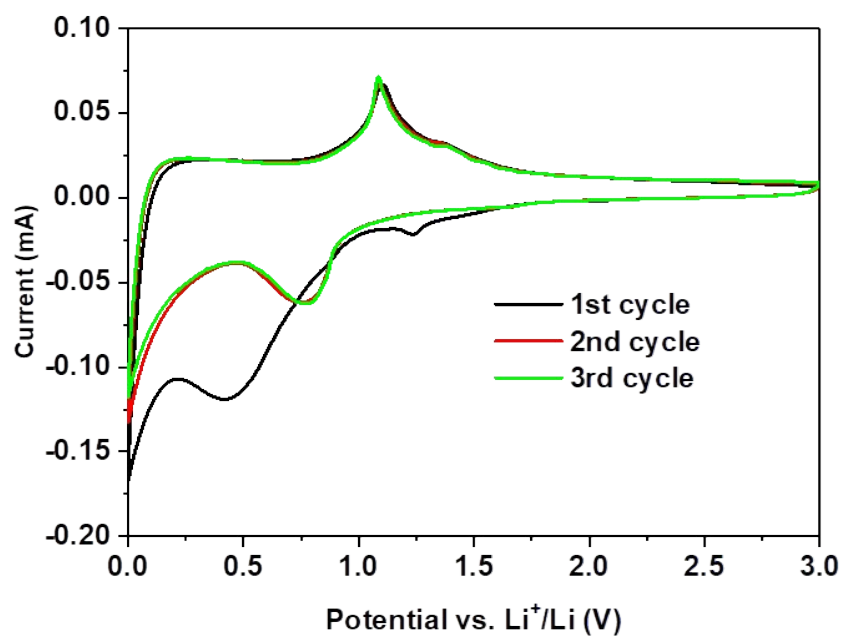


Figure S4. Cyclic voltammograms of 1st, 2nd, and 3rd cycles for Sb@Sb₂O₃/3DNC between 0 and 3 V at a scan rate of 0.1 mV s⁻¹ at 25 °C.

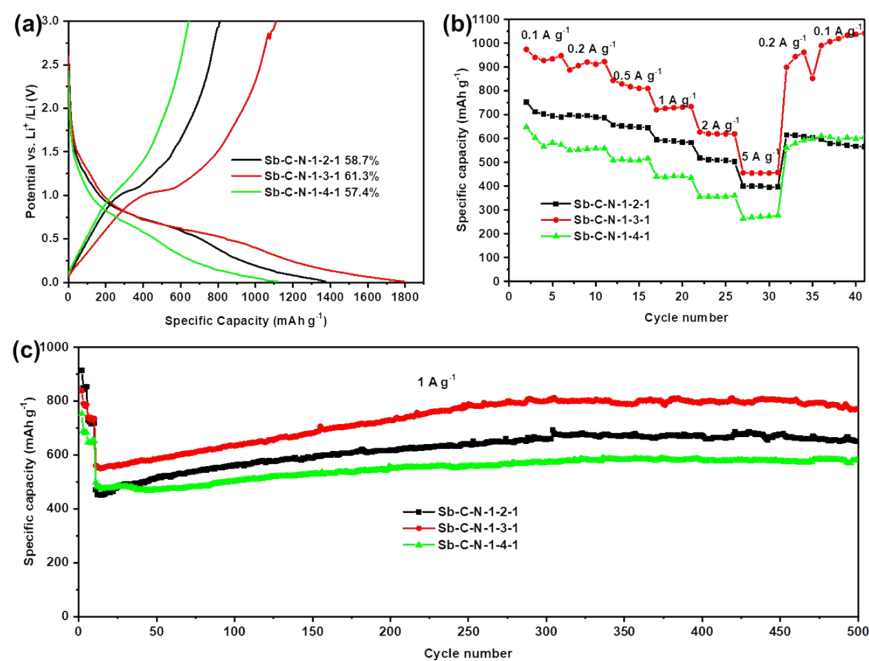


Figure S5. (a) The initial charge/discharge curves at 0.1 A g⁻¹, (b) rate capability and (c) cycling performance at 1 A g⁻¹ of the Sb-C-N-1-2-1, Sb-C-N-1-3-1 and Sb-C-N-1-4-1

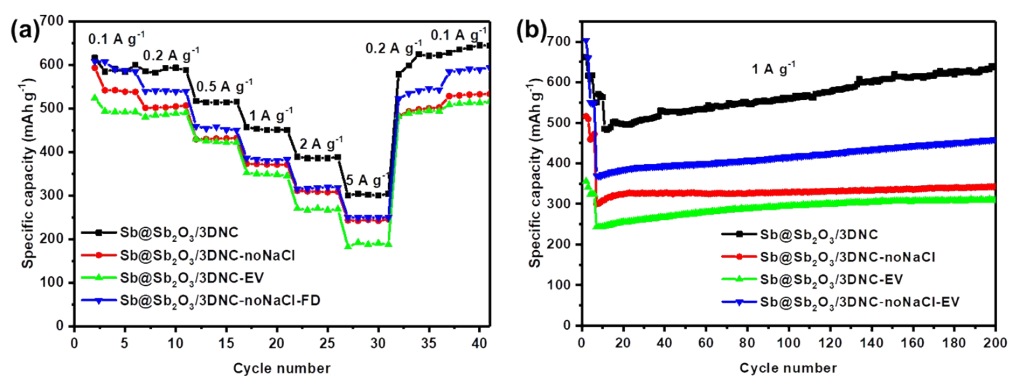


Figure S6. (a) Rate capability and (b) cycling performance at 1 A g⁻¹ of Sb@Sb₂O₃/3DNC, Sb@Sb₂O₃/3DNC-noNaCl, Sb@Sb₂O₃/3DNC-EV and Sb@Sb₂O₃/3DNC-noNaCl-EV