Supporting Information

Synthesis of Sb-pyromellitic acid metal-organic framework material and its sodium storage properties

Zhiyan He [a], Wei Zhang [a], Mingqi Li [a, b] *

[a] College of Chemistry and Chemical Engineering, China West Normal University, Nanchong 637009, China

[b] Chemical Synthesis and Pollution Control Key Laboratory of Sichuan Province, Nanchong 637009, China

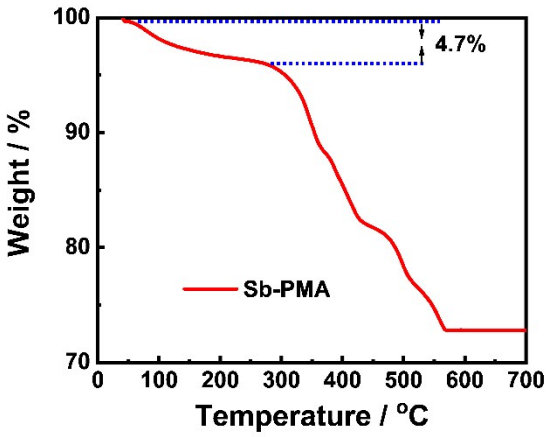

Fig. S1. TG curve of Sb-PMA

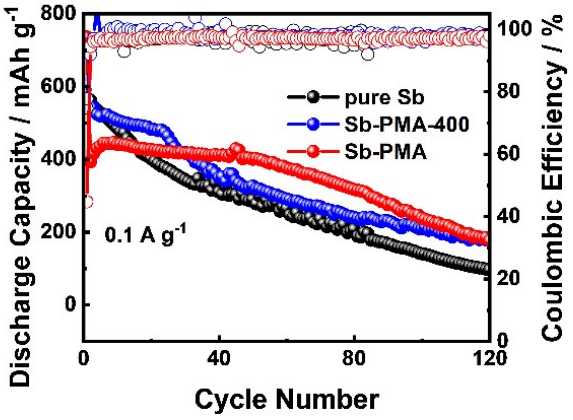

Fig. S2. Cycling performance of Sb-PMA-400 and pure Sb at 0.1 A g^{-1}.

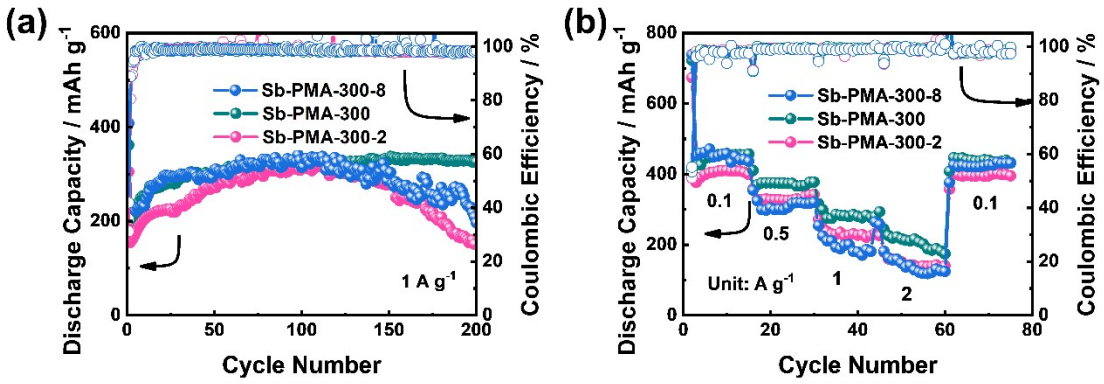

Fig. S3. (a) Cycling performance at a current density of 0.1 A g^{-1} and (b) Rate performance of Sb-PMA-300 annealed for different times.

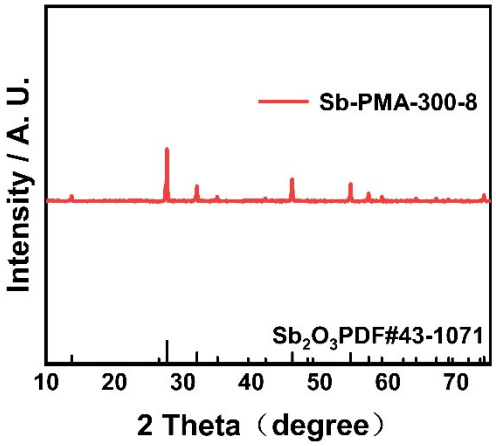

Fig. S4. XRD of Sb-PMA-300-8

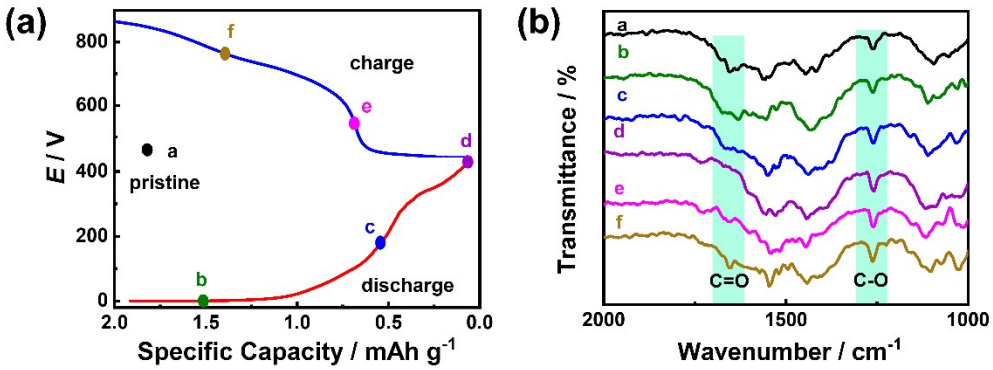

Fig. S5. (a) Discharge/charge profiles of Sb-PMA-300 at 0.1 A g^{-1} and (b) its Ex-situ FTIR spectra during cycling.

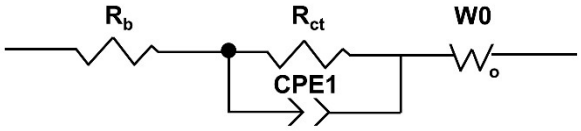

Fig. S6. EIS equivalent circuit diagrams

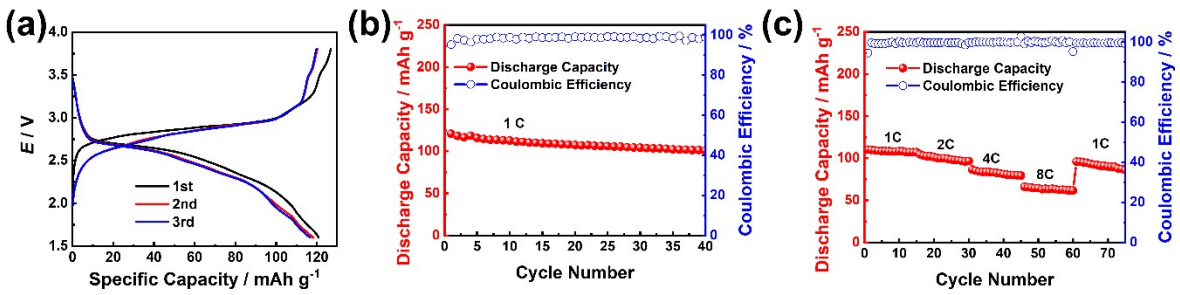

Fig. S7. (a) The charge/discharge curves, (b) cycling performance obtained at 1C (1C=0.1 A g^{-1}) and rate capability (c) at 1C-8C of the full cell.