Supporting information

Ultrathin $Na_{1.08}V_3O_8$ nanosheets-a novel cathode material with superior rate capability and cycling stability for Li-ion batteries

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Fig. S1 FT-IR curves of as-prepared $Na_{1.08}V_3O_8$



Fig. S2 Low magnified SEM image of as-prepared Na_{1.08}V_3O_8 at 450 $^\circ\text{C}$



Fig. S3 XRD pattern of as-prepared intermediate with the reaction time of 44 h.



Fig. S4 XRD patterns of as-prepared intermediates with the reaction time of 0.5 h and 2 h.



Fig. S5 Cycling performance of as-prepared Na_{1.08}V₃O₈ at 450 °C at a current density

of 30 mA g^{-1} .





Fig. S6 Schematic illustration of Li ions insertion/extraction mechanism in

Na_{1.08}V₃O₈ nanosheet.