Supplementary Information

Electrospun porous LiNb₃O₈ nanofibers with enhanced lithium-storage properties

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Fig. S1 A typical EDX spectrum of $LiNb_3O_8$, suggesting the existence of Nb, O, and C, where the signal of C is generated from the conducting tape for the sample holder.



Fig. S2 The in-situ XRD patterns in the range of $20-45^{\circ}$ of LiNb₃O₈ anode during the second cycle at 30 mA g⁻¹ at specified points shown in Figure 8a.



Fig. S3 (a) Raman spectrum and (b) TG result of the $LiNb_3O_8@C$ nanofibers measured at a heating rate of 10 °C min⁻¹ in a flowing air.



Fig. S4 Comparison of the cycling stability at various C-rates for the carbon-free and coated LiNb₃O₈ samples.