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Fig. S1 XRD pattern of SnO₂NW@GNS



Fig. S2 (a) EDX of the tip of a nanowire and (b) EDX of a nanowire stem



Fig. S3. CV of a graphene nanosheet (GNS) on the copper substrate



Fig. S4 The charge-discharge profiles of SnO_2 nanowires on copper substrates at a current density of 23 μAcm^{-2} for 50 cycles



Fig. S5 Charge discharge curves for current densities



Fig. S6 XPS spectra of the electrode after the 50th cycle (a) Survey spectrum, (b) and (c) are Sn 3d and Li 1s peaks.

