Supplementary Materials

Figure S1: TG curve of V3S4/N, S-rGO nanosheets under air atmosphere.

Figure S2: Raman spectrum of VS/NSG sample.
Figure S3: XPS spectrum of as-prepared V$_3$S$_4$/N, S-rGO nanosheets.

Figure S4: XPS S 2p spectrum of VS/NSG treated after acid.
Figure S5: (a) Initial discharge-charge curves and (b) cyclic performance of V₃S₄ counterpart under 0.05 and 0.5 A g⁻¹, respectively.

Figure S6: Capacitive current contribution (blue region) to the charge storage at (a) 0.2, (b) 0.4, (c) 0.6 and (d) 0.8 mV s⁻¹ of V₃S₄/N, S-rGO nanosheets.
Figure S7: Nyquist plots of V@Si/N, S-rGO nanosheets cell at 3rd and after 50 cycles.