In situ self-sacrificed template synthesis of vanadium nitride/nitrogen-doped graphene nanocomposite for electrochemical capacitors

Fig. S1 XPS survey of the VN/NGr-2 nanocomposite.

Fig. S2 SEM image of VN nanoparticle.
Fig. S3 (a) TEM image and TEM elemental mapping images of vanadium (b), nitrogen (c), oxygen (d), and carbon (e).

Fig. S4 (a) Nitrogen adsorption/desorption isotherms, (b) cumulative pore volume vs. pore width and (c) pore size distribution of VN/NGr-1, VN/NGr-2, VN/NGr-4, and NGr.
Fig. S5 Nyquist plots of NGr, VN, VN/NGr-1, VN/NGr-2, and VN/NGr-4.

Fig. S6 The first, 1000th, and 2000th CV curves of the VN/NGr-2 nanocomposite at 50 mV s⁻¹.