

Fig. S1. FTIR spectra of V_2O_5 , NiO & V_2O_5/NiO nanocomposites (1:0.5, 1:1, 1:1.5).

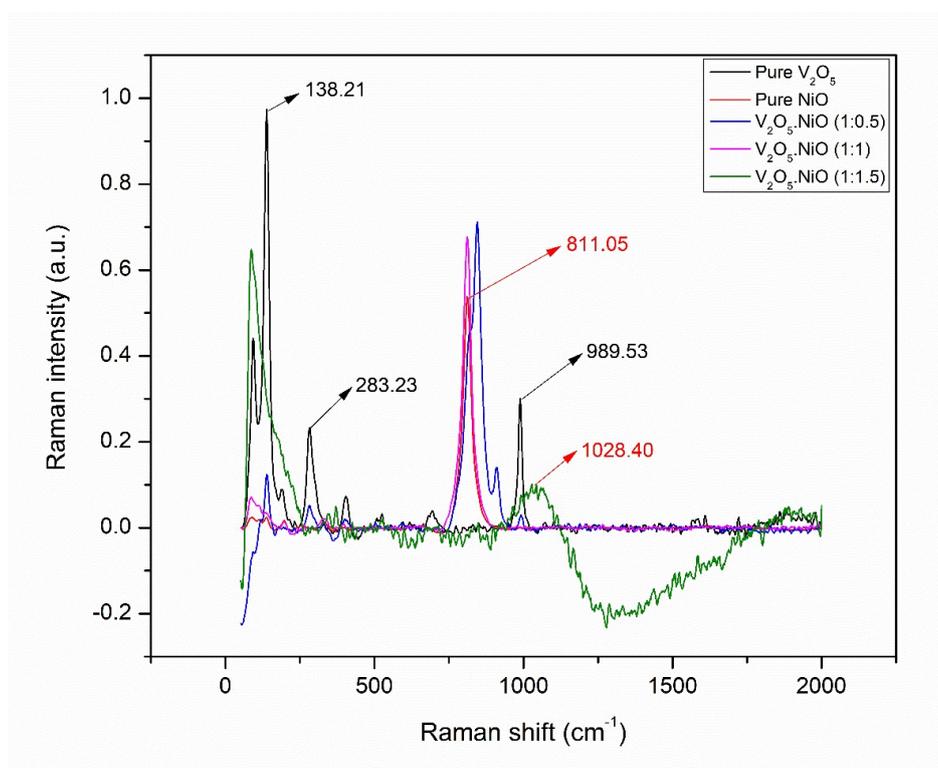


Fig. S2. Raman spectra of V_2O_5 , NiO & V_2O_5/NiO nanocomposites (1:0.5, 1:1, 1:1.5).

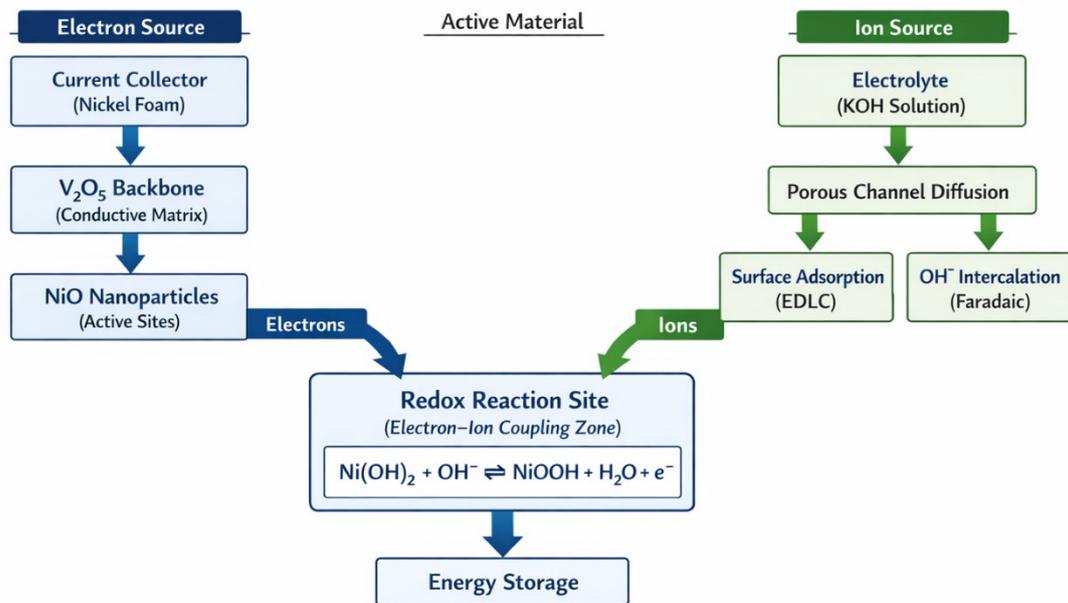


Fig. S3. Schematic of Charge Transfer Mechanism in V_2O_5/NiO Electrode.

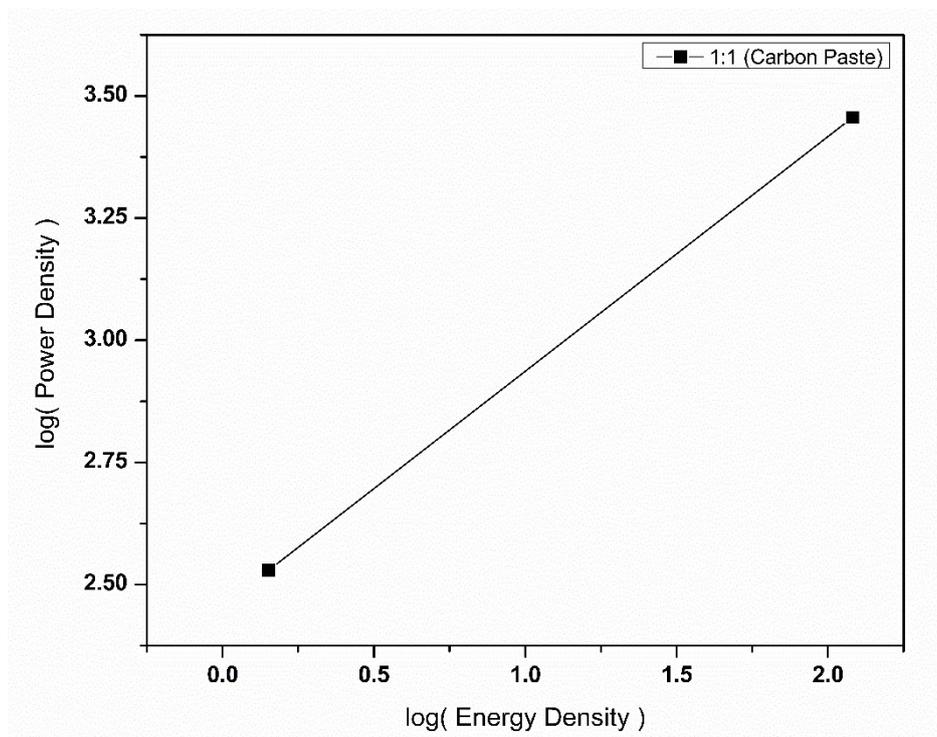


Fig. S4. Ragone Plot (Energy Density vs. Power Density) of the V_2O_5NiO (1:1) nanocomposite electrode on Carbon Paste.

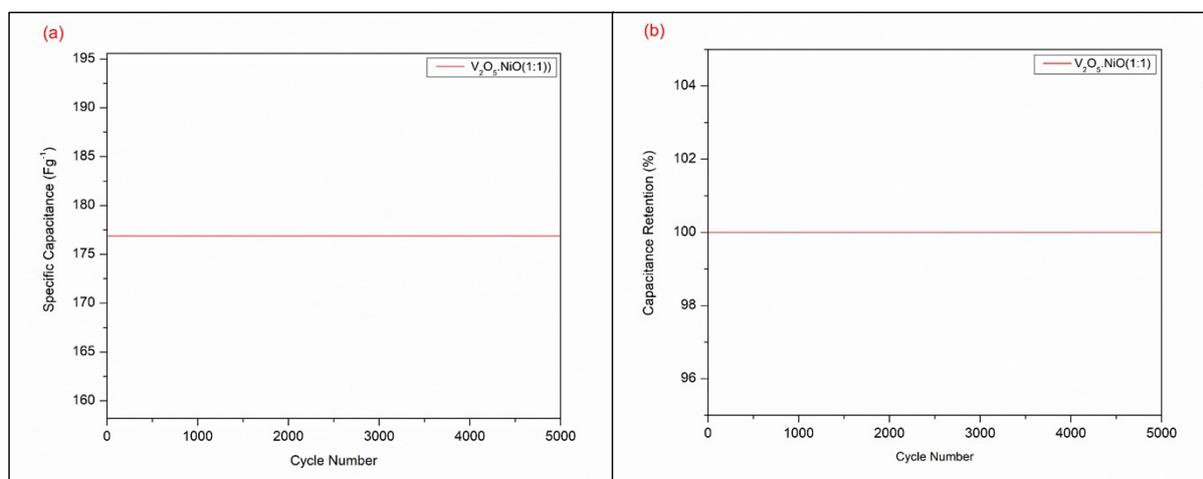


Fig. S5. Cyclic stability performance of $V_2O_5/NiO(1:1)$ electrode: (a) Specific capacitance over 5000 cycles and (b) Capacitance retention percentage over 5000 cycles.