

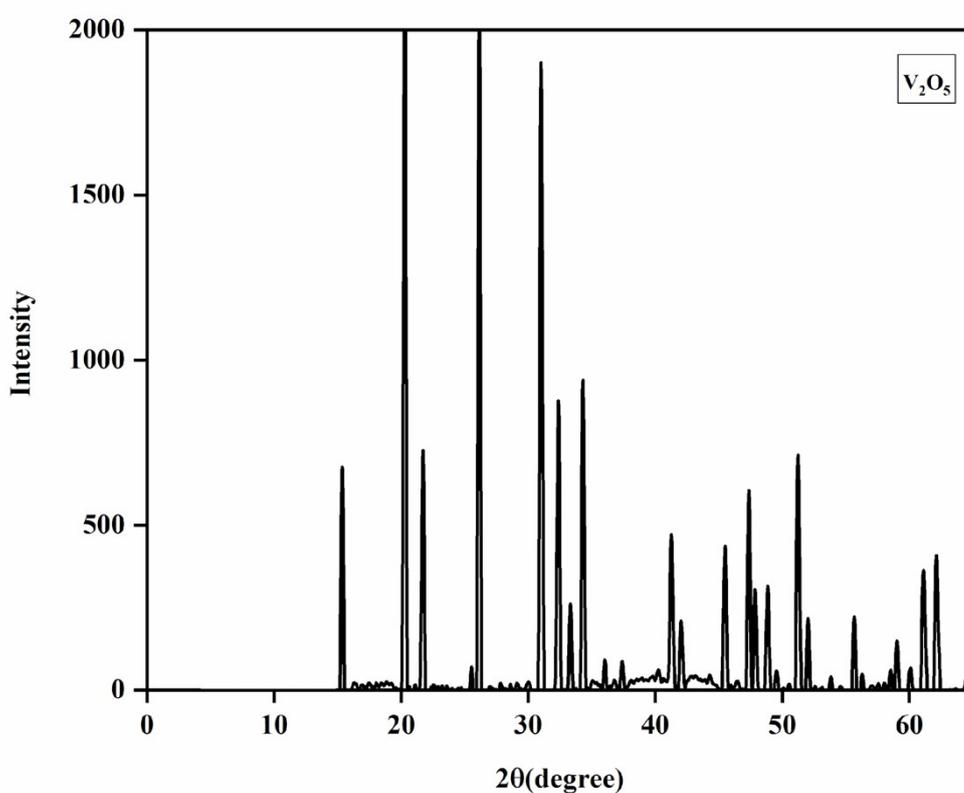
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**Fig. S.1. XRD spectrum of V<sub>2</sub>O<sub>5</sub>**

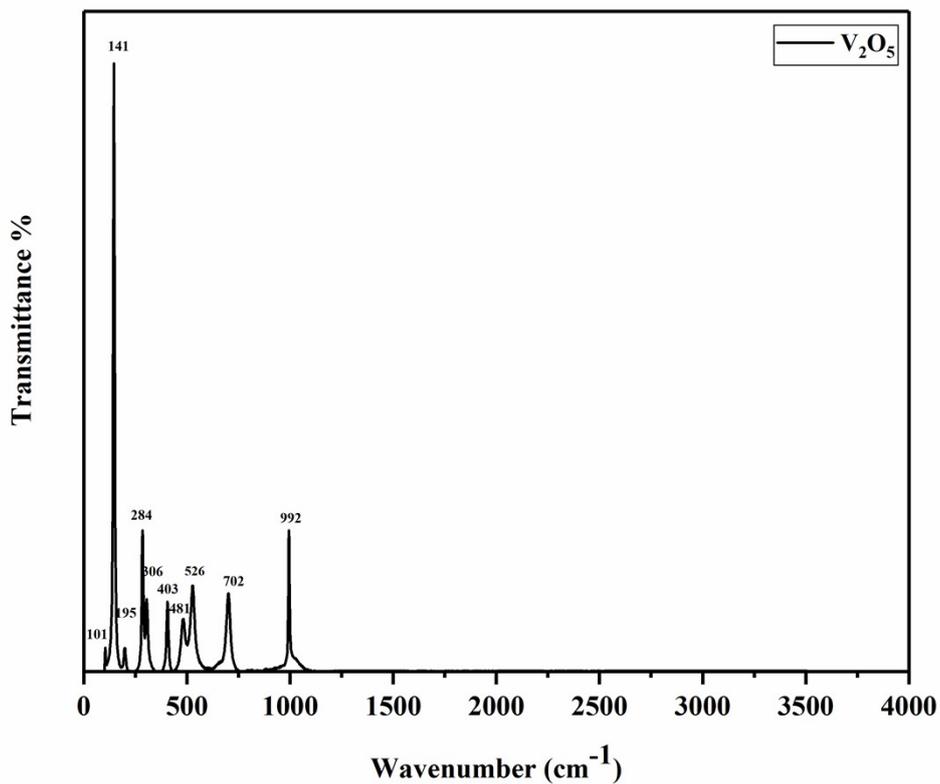


Fig.S.2. Raman Spectra of  $V_2O_5$

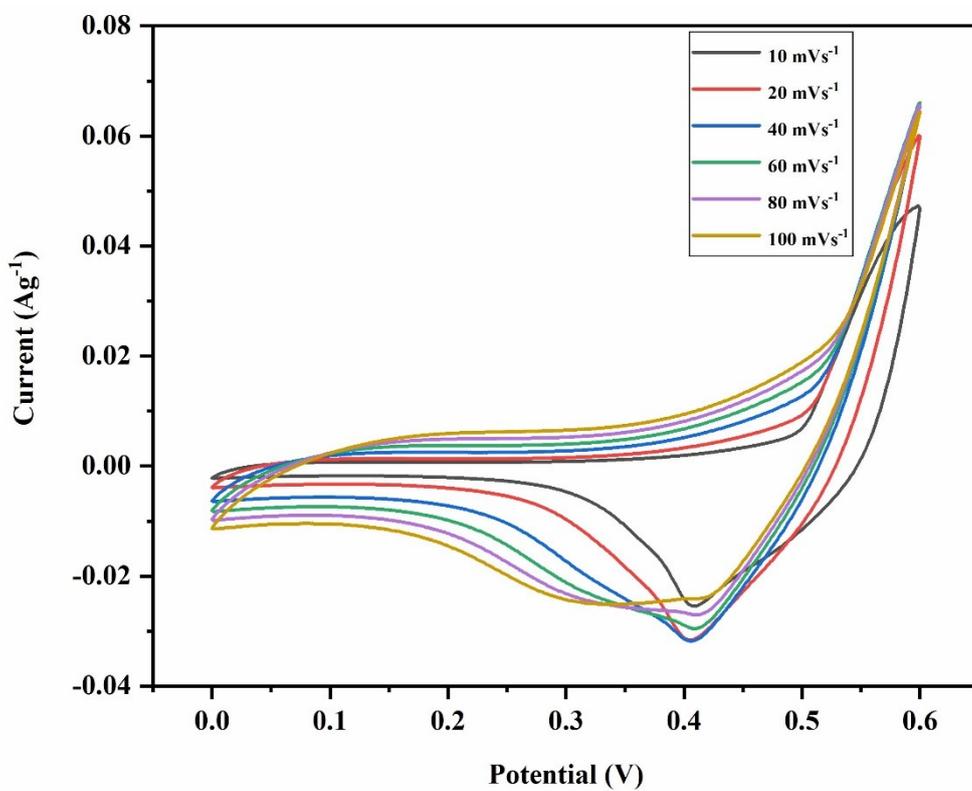


Fig.S.3. CV of UzMWCNT at 10 to 100  $mVs^{-1}$

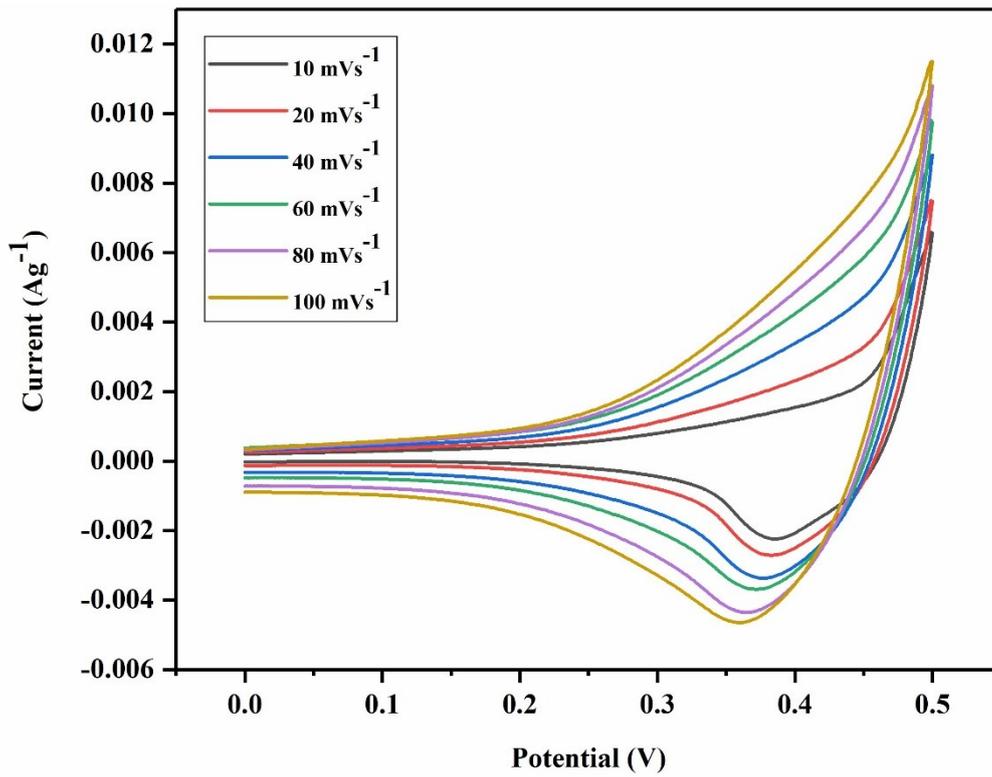


Fig.S.4. CV of  $V_2O_5$  at 10 to 100  $mVs^{-1}$

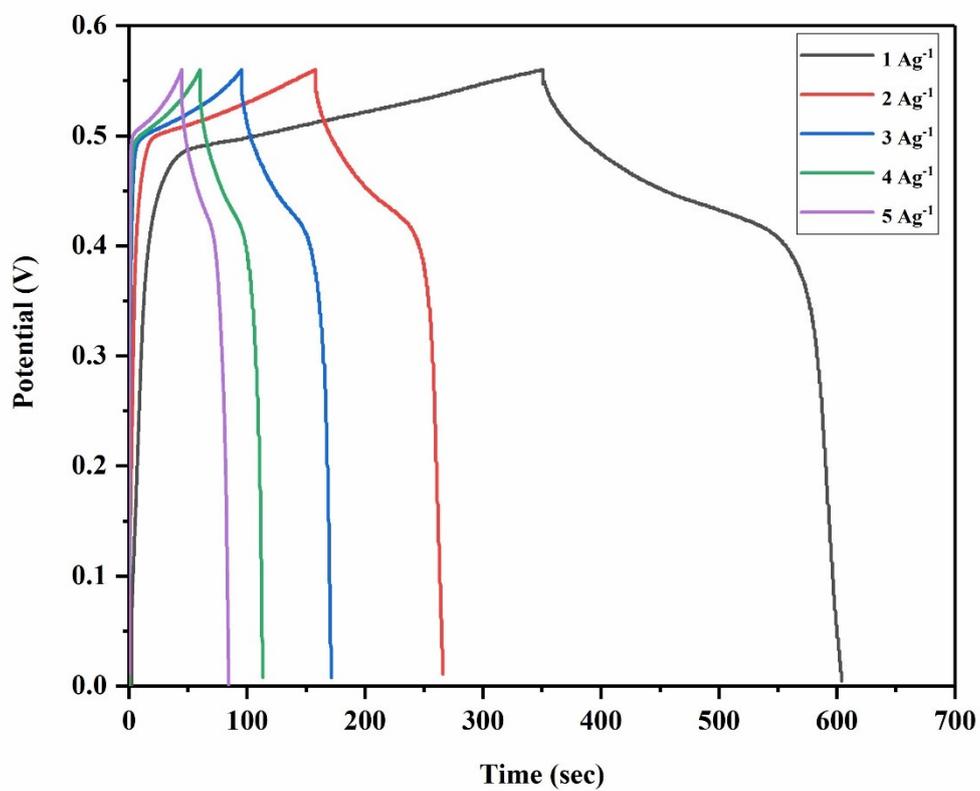


Fig.S.5. GCD of UzMWCNT at current density of 1 to 5  $A g^{-1}$

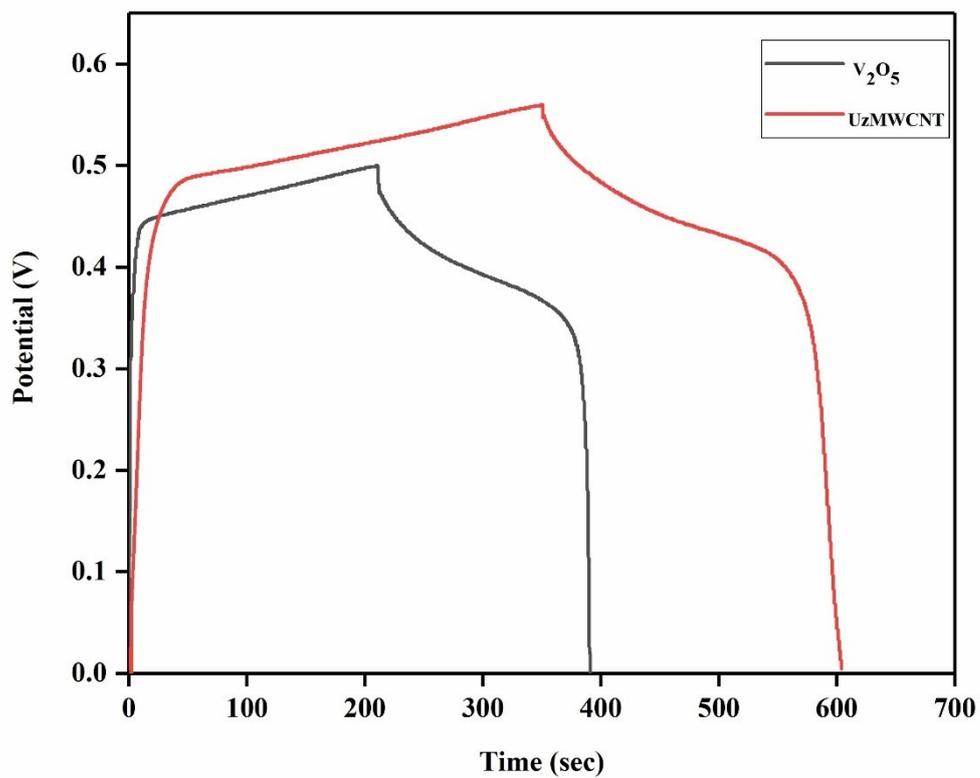


Fig.S.6. GCD of  $V_2O_5$  and UzMWCNT

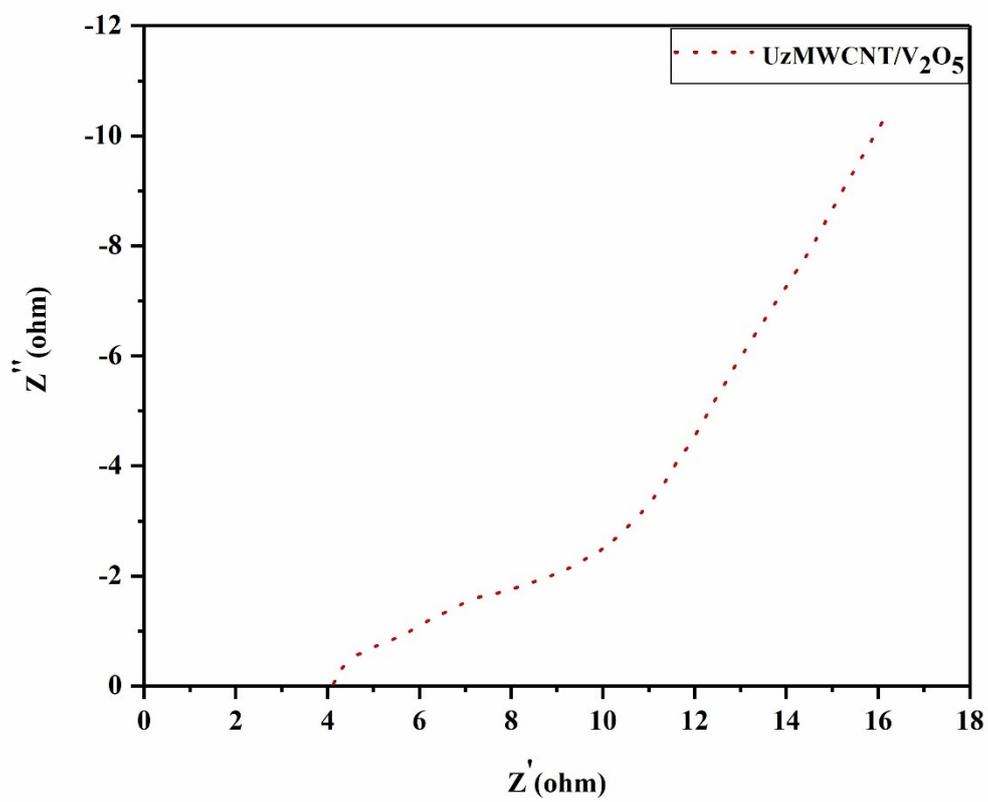


Fig.S.7. EIS of Symmetric UzMWCNT/V<sub>2</sub>O<sub>5</sub>

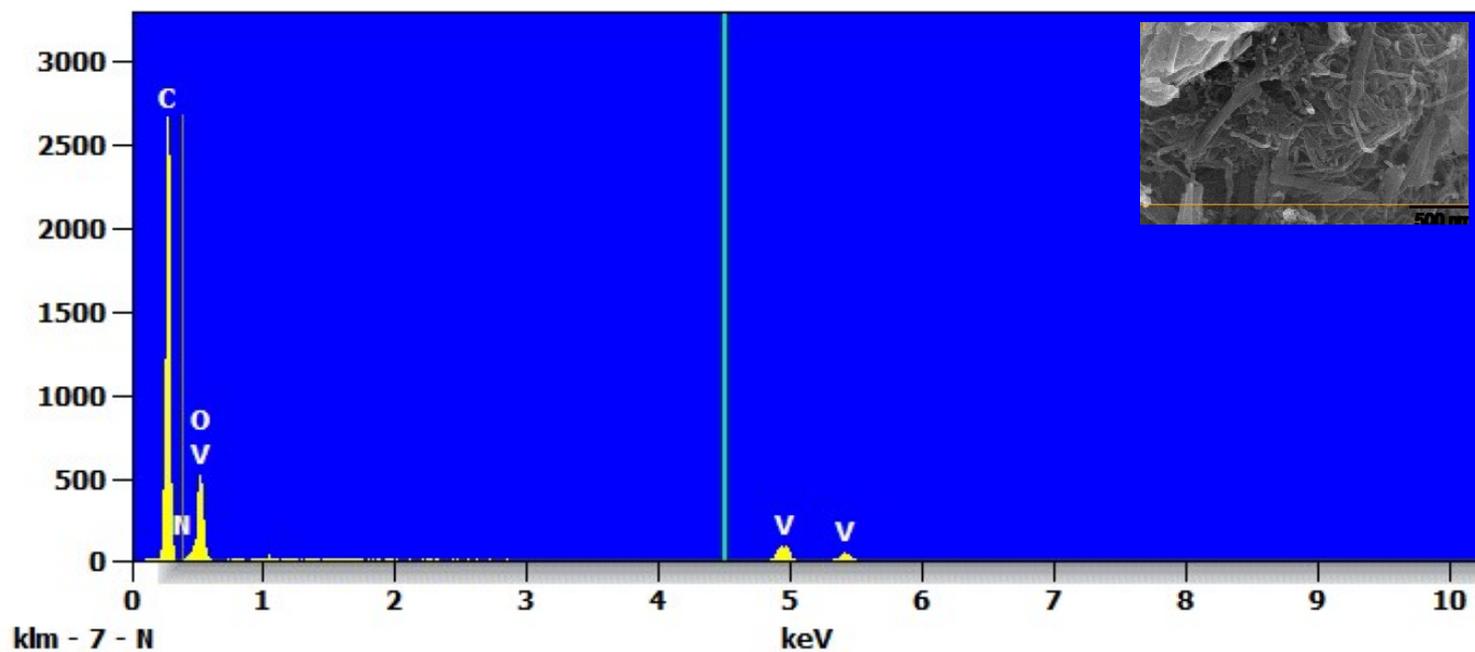


Fig.S.8 SEM-EDX after electrochemical stability measurement

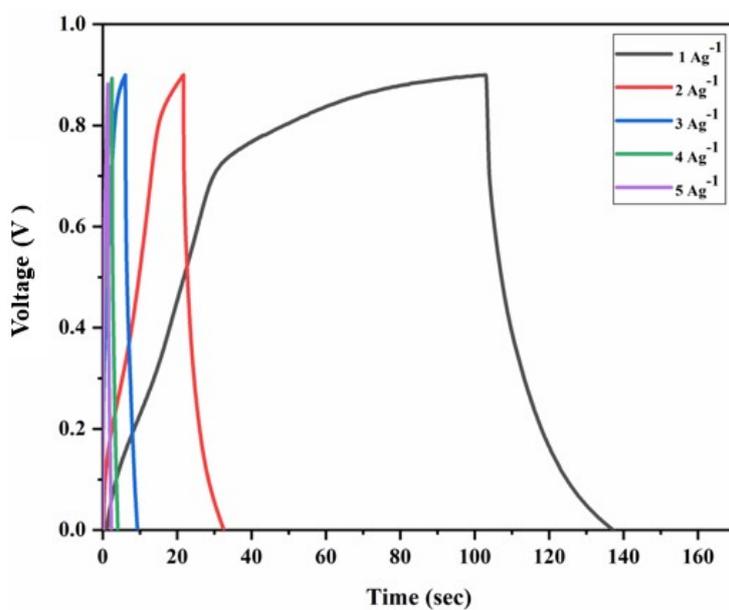
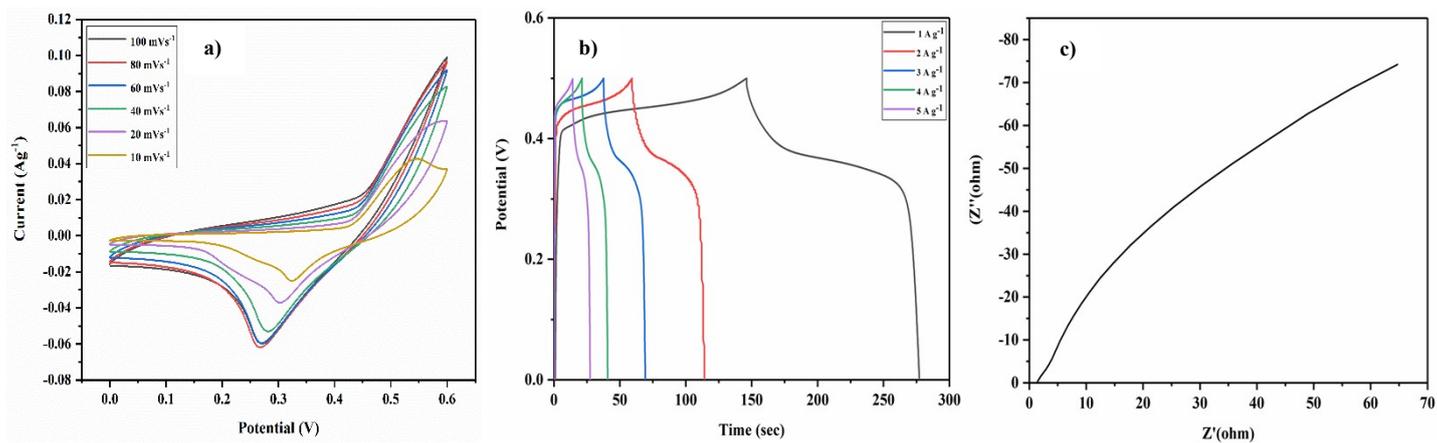


Fig.S.9. GCD of Symmetric UzMWCNT/V<sub>2</sub>O<sub>5</sub> of potential window (0-0.9V)



**Fig.S.10** Electrochemical performance of MWCNT a) CV, b) GCD, and c) EIS