Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A.

Supplementary information

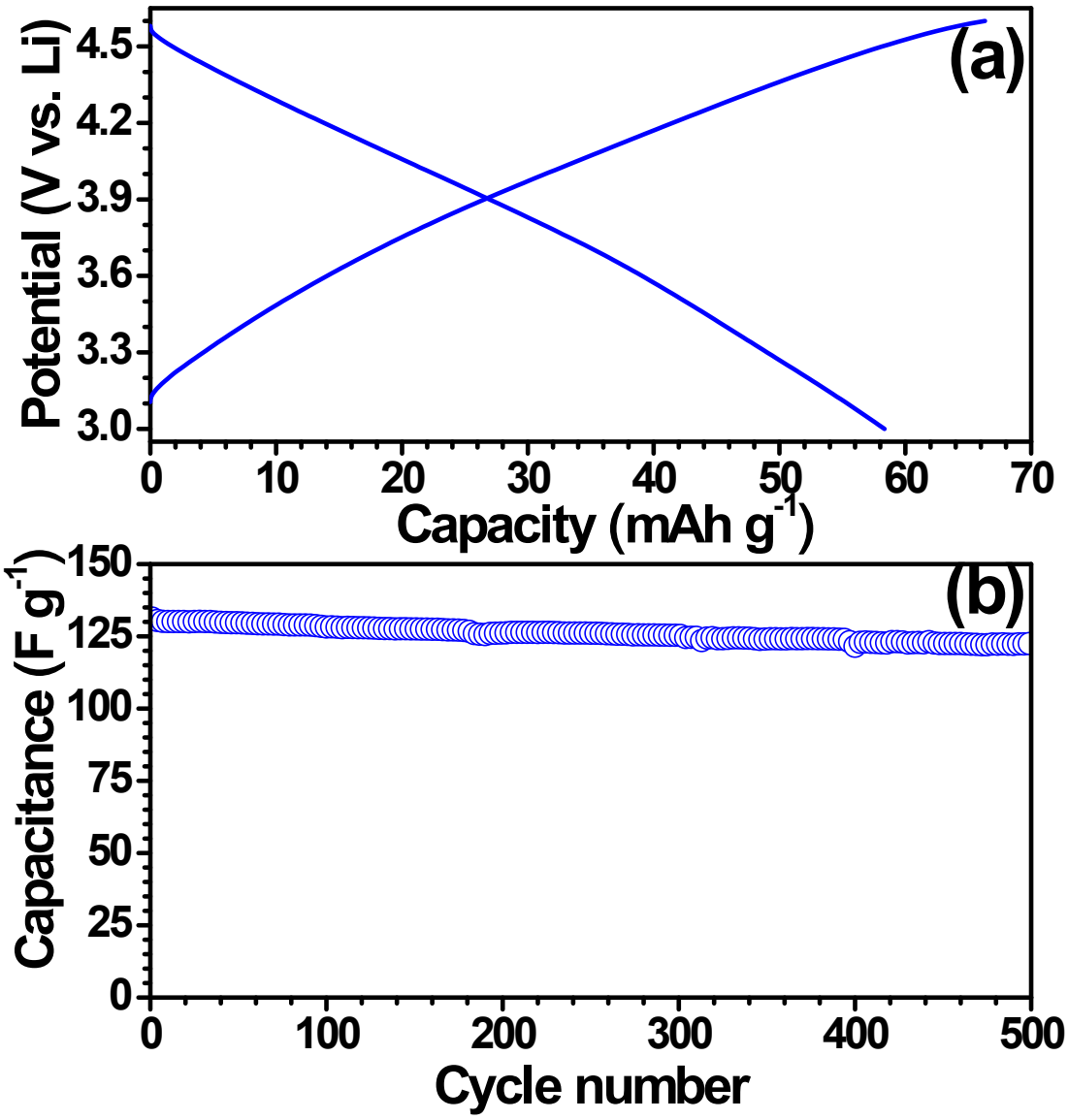

Figure S1. Electrochemical performance of AC in half-cell configuration (Li/AC): (a) typical charge-discharge curves recorded between 3-4.6 V *vs.* Li at a current density of 100 mA g^{-1}, and (b) cycling profiles.

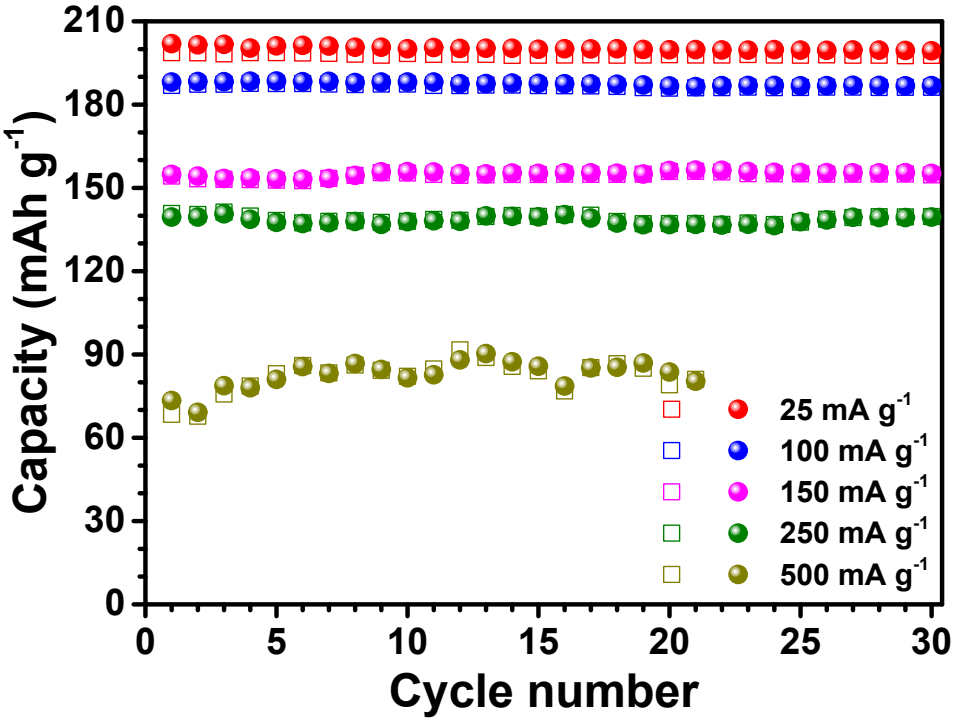

Figure S2. Rate capability studies of CVT grown TiS_2 in half-cell assembly at different current densities. Active materials loading 10 mg.

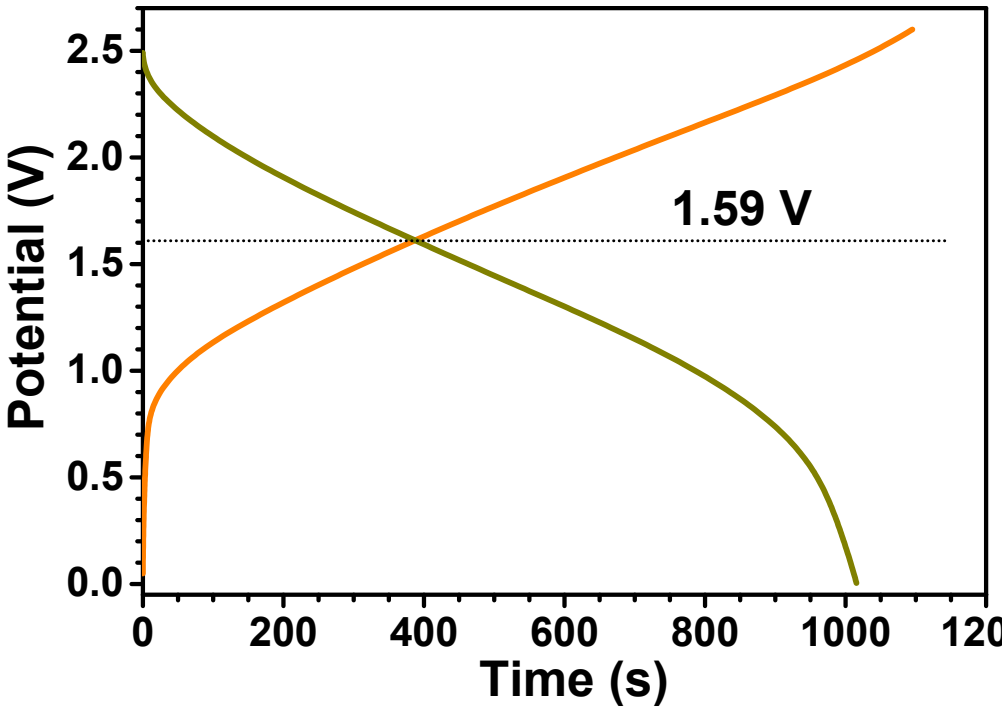

Figure S3. Typical charge-discharge curves of AC/TiS_2 based LIC recorded at current density of 100 mA g^{-1}

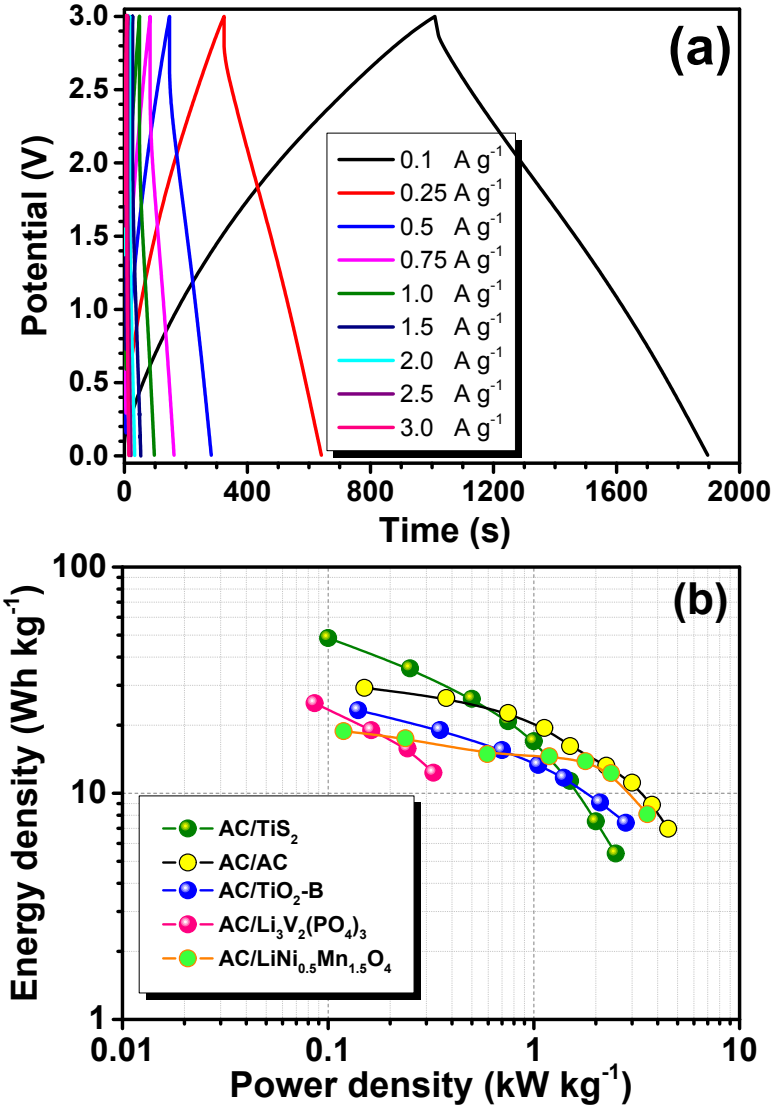

Figure S4. (a) Typical charge-discharge curves of the symmetric supercapacitor fabricated with commercial activated carbon (AC/AC, surface area: 2100 m^2 g^{-1} with pore volume of 0.94 mg $^{-1}$, Active material loading: 10 mg in each electrode), and (b) Ragone plot of symmetric (AC/AC) and various asymmetric configurations including AC/TiS_2.