Supplementary Information

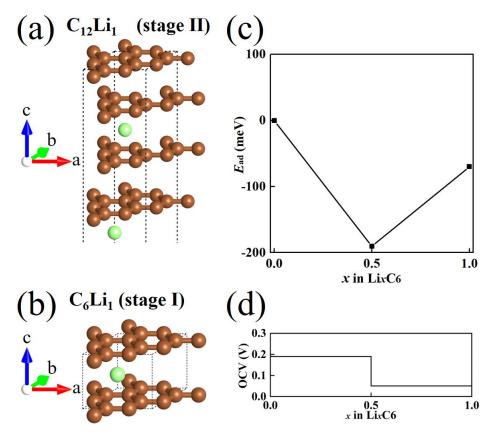


Fig. S1 The structures of graphite with Li intercalation: (a) $C_{12}Li_1$ and (b) C_6Li_1 . (c) The Li adsorption energy on $C_{12}Li_1$ and C_6Li_1 . (d) The calculated potential of graphite anode at the level of PBE-D3.

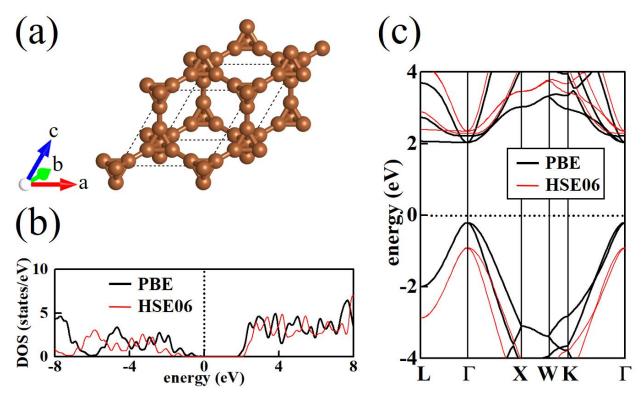


Fig. S2 The structure (a), DOS (b) and energy bands (c) of T-carbon.