

Carbon coating and Al-doping to improve electrochemistry of $\text{Li}_2\text{CoSiO}_4$ polymorphs as cathode materials for lithium-ion batteries

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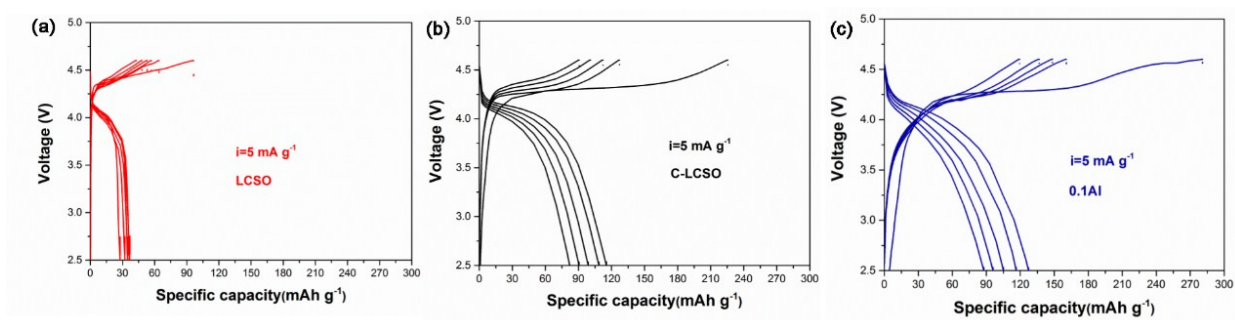


Figure S1, The voltage degradation of pure LCSO, carbon-coated C/LCSO, and Al-doping carbon coated 0.1Al-LCSO/C material samples over first five charge-discharge cycles.

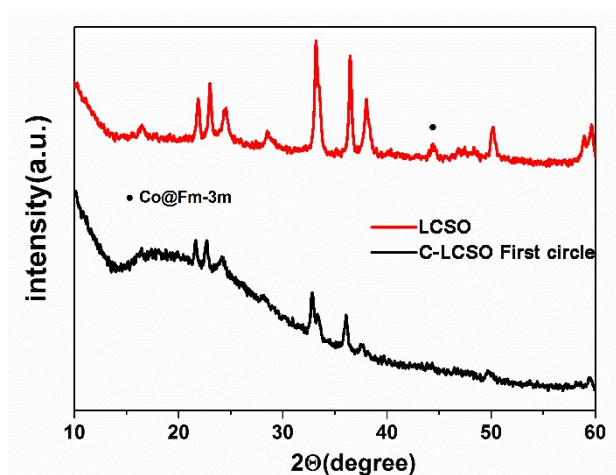


Figure S2, The XRD spectral comparison of the C-LCSO material before and after the first cycle.

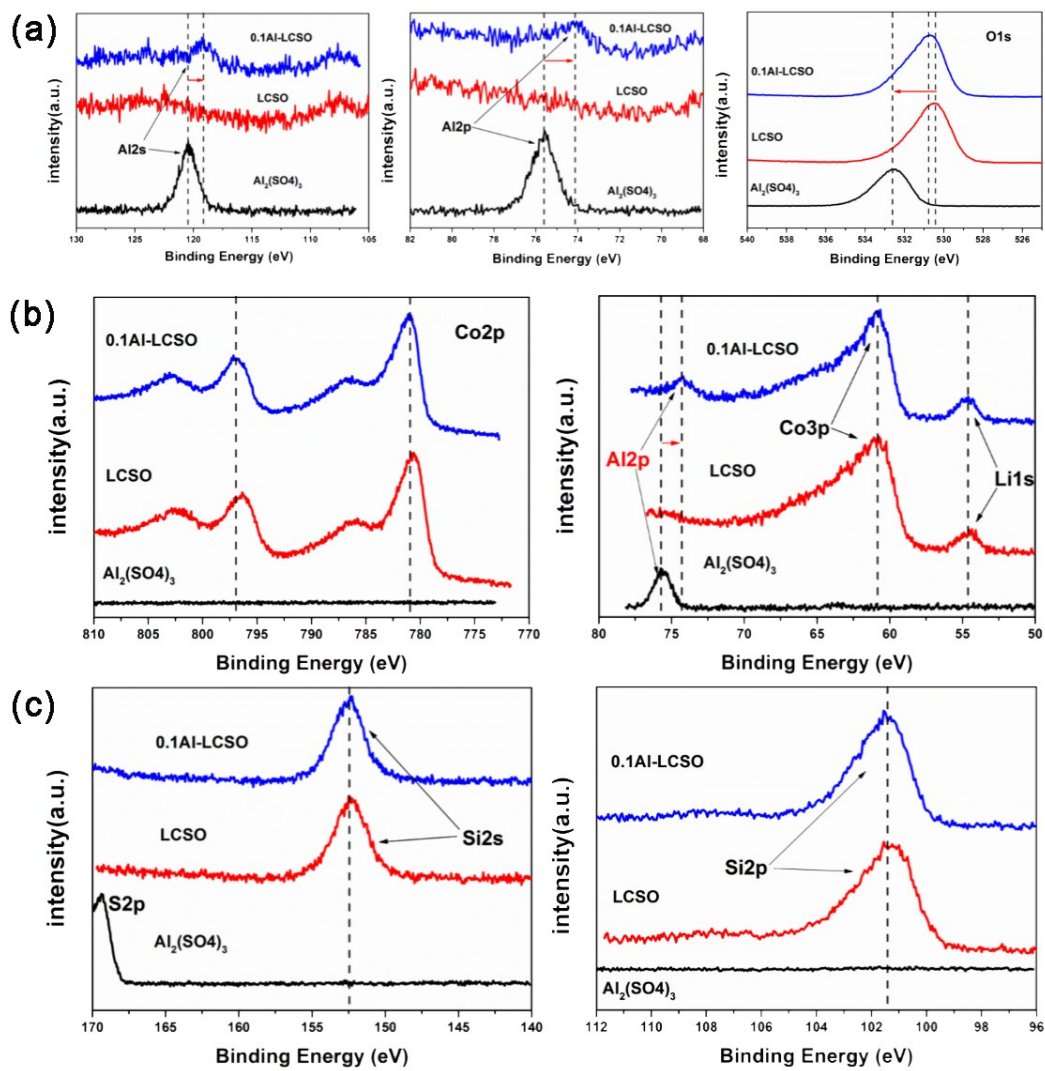


Figure S3, Figure 7 (a) Al₂p, Al₂s and O1s high resolution XPS spectrum of 0.1Al-LCSO, LCSO and aluminium sulphate; (b) Co₂p and Co₃p high resolution XPS spectrum of 0.1Al-LCSO and LCSO; (c) Si₂p and Si₃p high resolution XPS spectrum of 0.1Al-LCSO and LCSO.