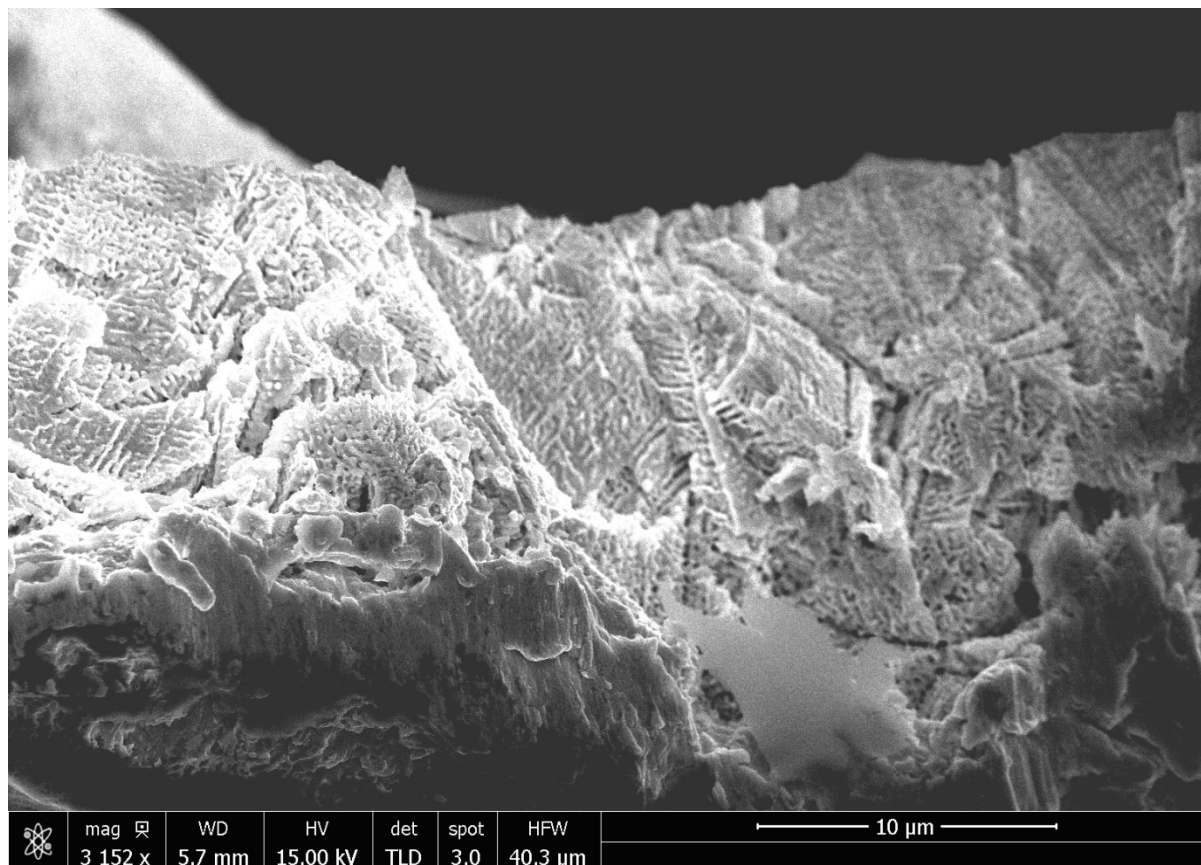
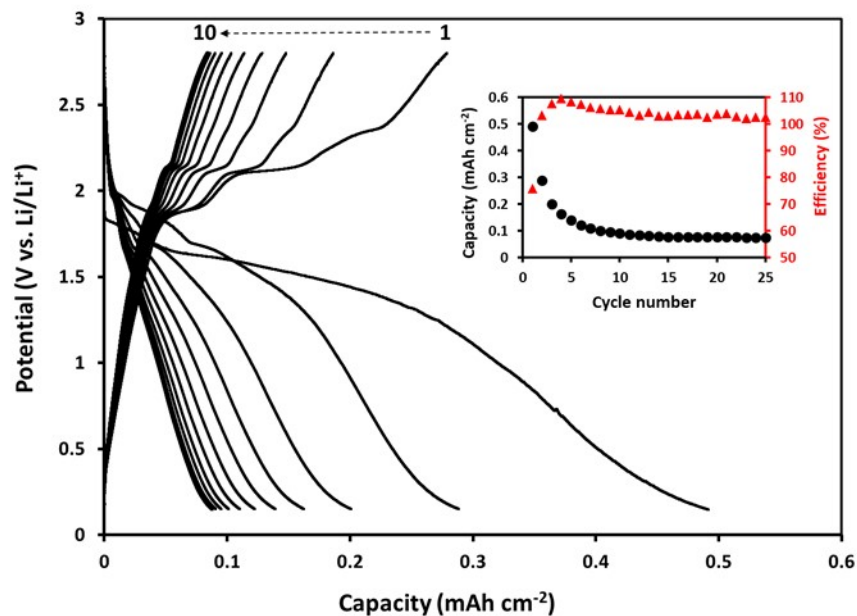


## Supporting information

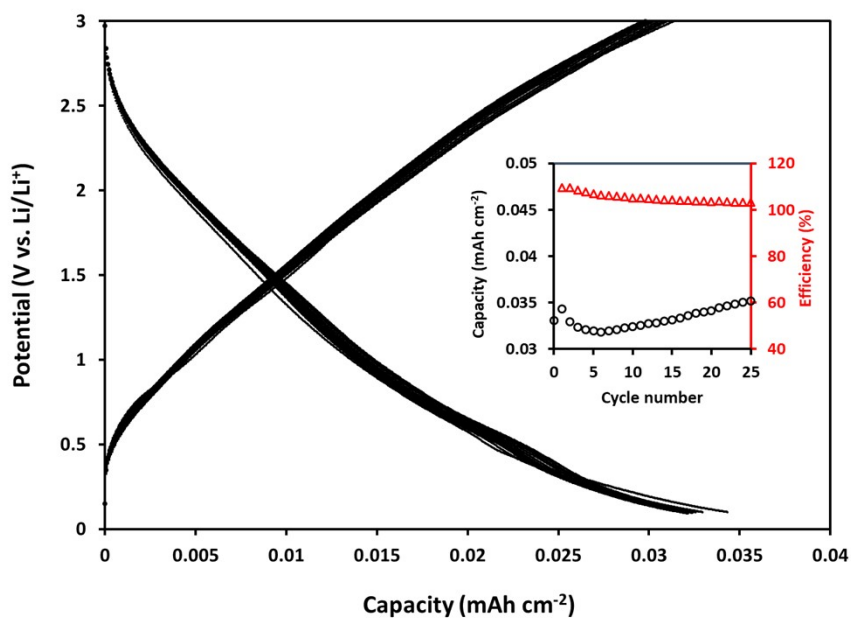
“On the performance of hierarchically porous  $\text{Ag}_2\text{S-Cu}_x\text{S}$  electrode in Li-ion batteries” by R. I. Tomov, L. Mihaylov, L. R. Bird, Ev. Vassileva, R. V. Kumar, M. Chhowalla and T. Spassov



*Fig. S1. HR-SEM cross-section of bare de-alloyed electrode before reaction with sulphur.*



(a)



(b)

Fig. S2 Comparison of the volumetric energy densities of (a) for the first 10 cycles of  $\text{Ag}_2\text{S-Cu}_x\text{S}$  electrode and (b) bare Ag electrode at  $0.4 \text{ A g}^{-1}$  current rate. The insets demonstrate the evolution of the capacity and efficiency for the first 30 cycles.