

Supplementary data for

An XPS/AES comparative study of the surface behaviour of nano-silicon anodes for Li-ion batteries

Figure S1. Beginning of the galvanostatic curve corresponding to the first lithiation of Si electrodes

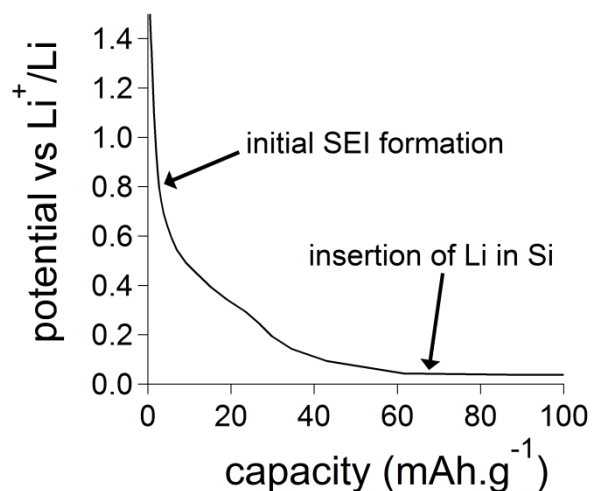


Figure S2. Surface analyses of electrode B after a lithiation of 360 mAh.g⁻¹ a) XPS spectra (F 1s and P 2p core peaks) and b) P LVV and F KLL Auger transition.

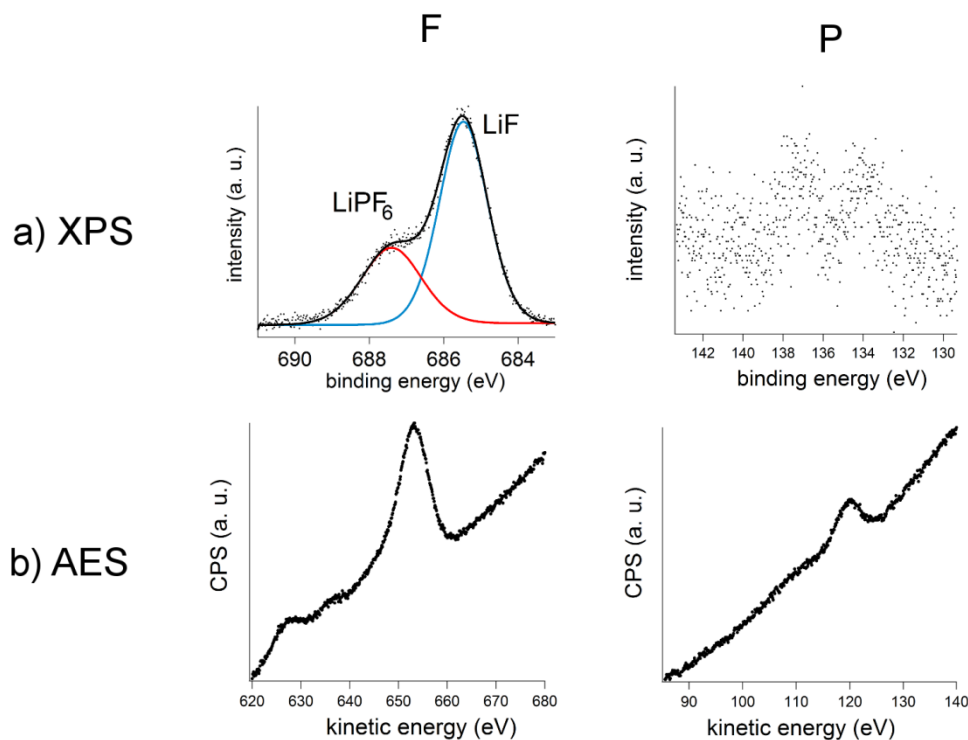


Figure S3. SEM images of the investigated particle before and after sputtering.

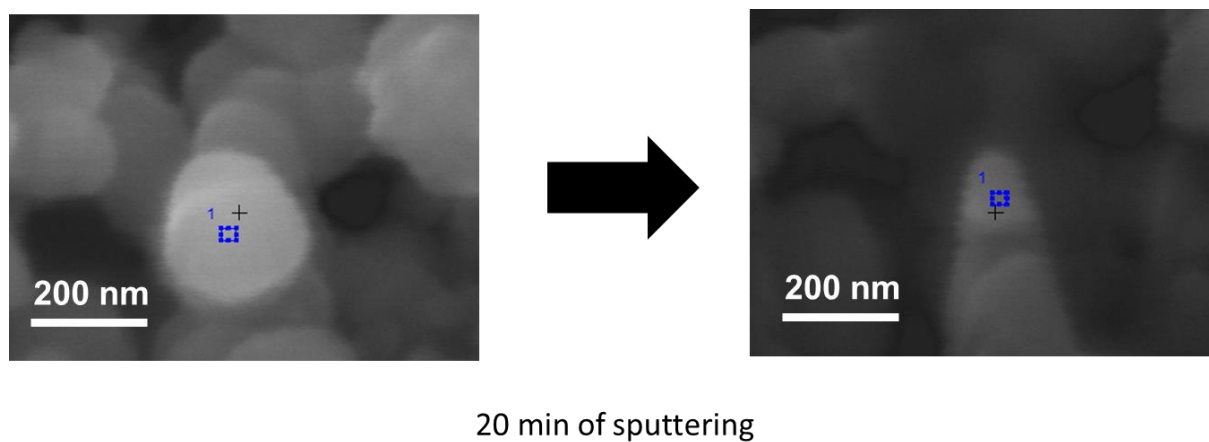


Figure S4. SEM image and Li Auger spectrum obtained at the surface of electrode C, after a full lithiation a) for a silicon particle and b) for a carbon fiber. The analyzed area is represented by a blue square on the SEM image.

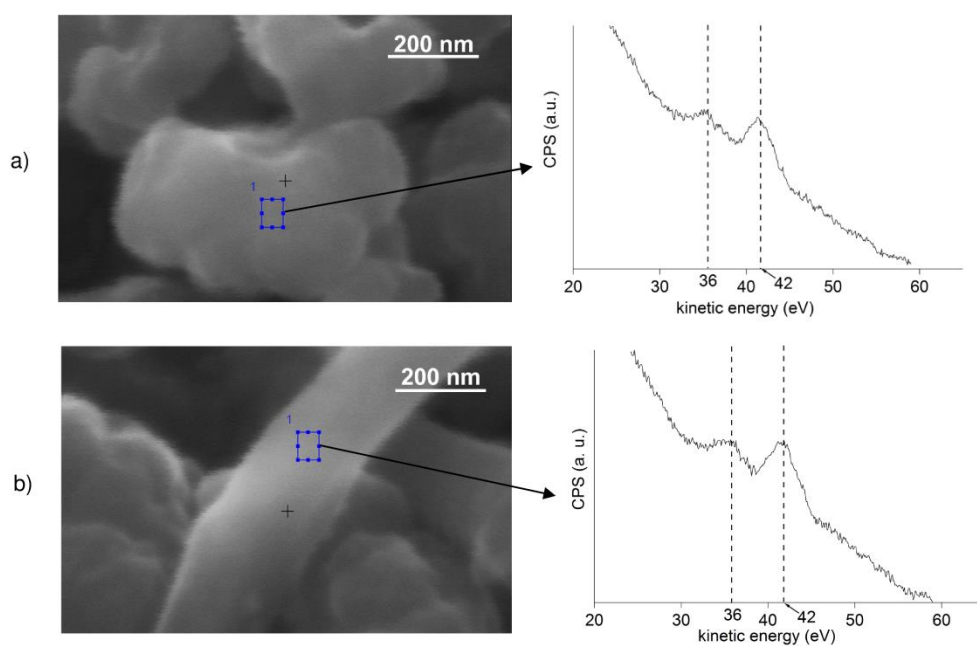


Figure S5. F 1s spectra obtained for electrodes B, C, and D

