

Electronic Supplementary Information

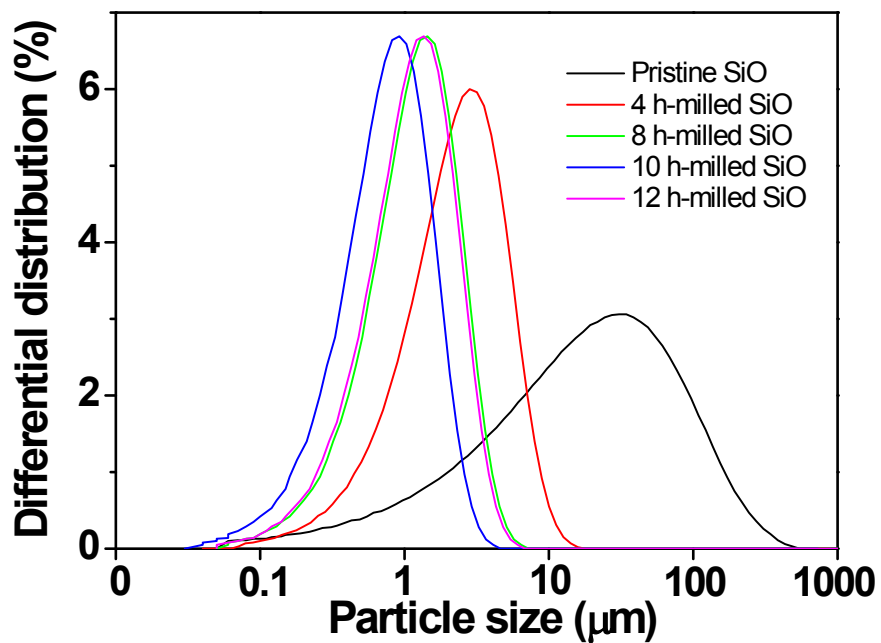


Figure S1 Particle size distribution curves of pristine and 4-12 h-milled SiO.

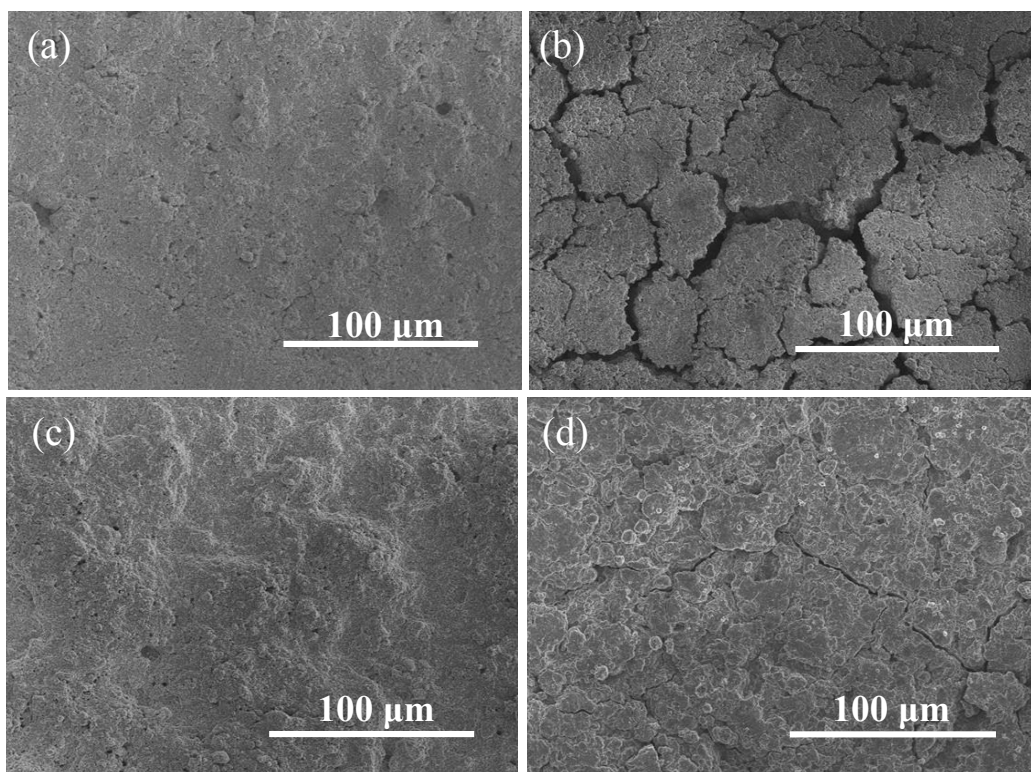


Figure S2 SEM images of 10 h-milled Si (a, b) and SiO electrodes (c, d). (a, c) as-prepared electrode, (b, d) after 150 cycles.

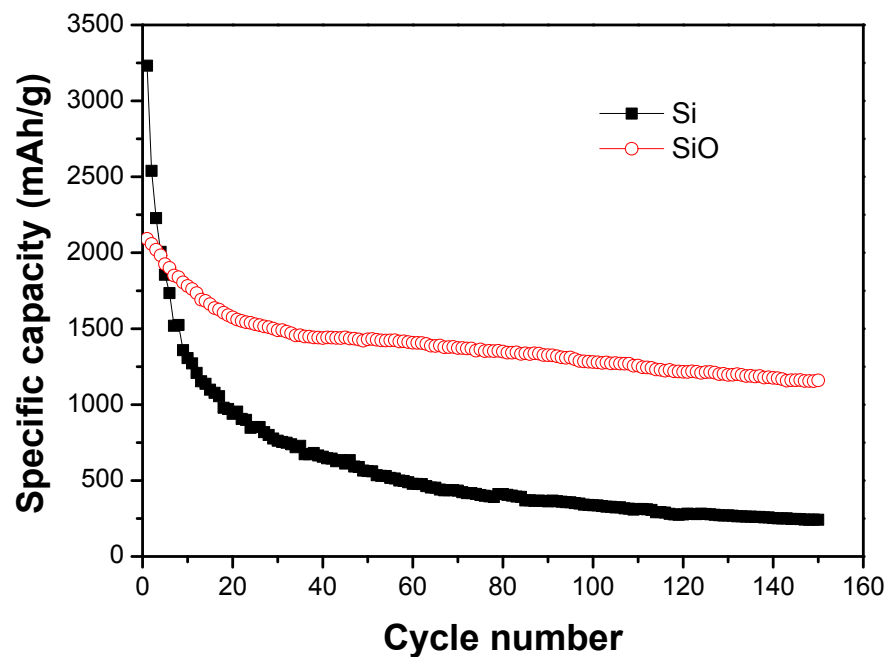


Figure S3 Comparison of cycling performance of the as-milled Si and SiO.

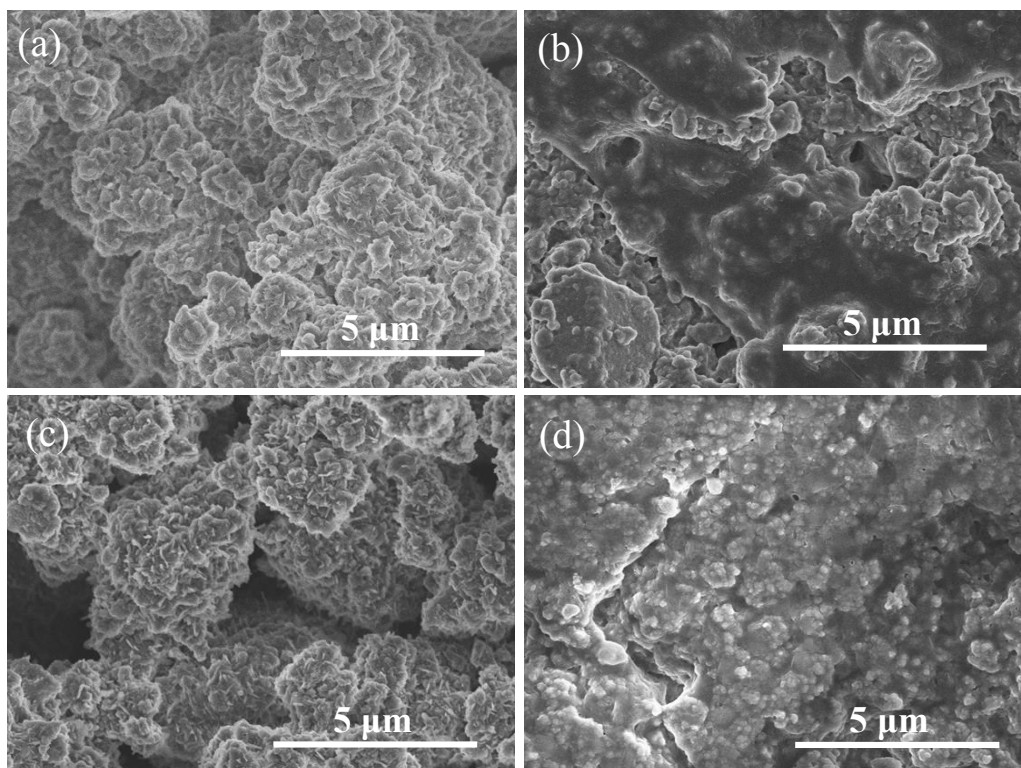


Figure S4 SEM images of pristine (a, c) and 10 h-milled (b, d) SiO electrodes after 5 (a, b) and 150 (c, d) cycles.

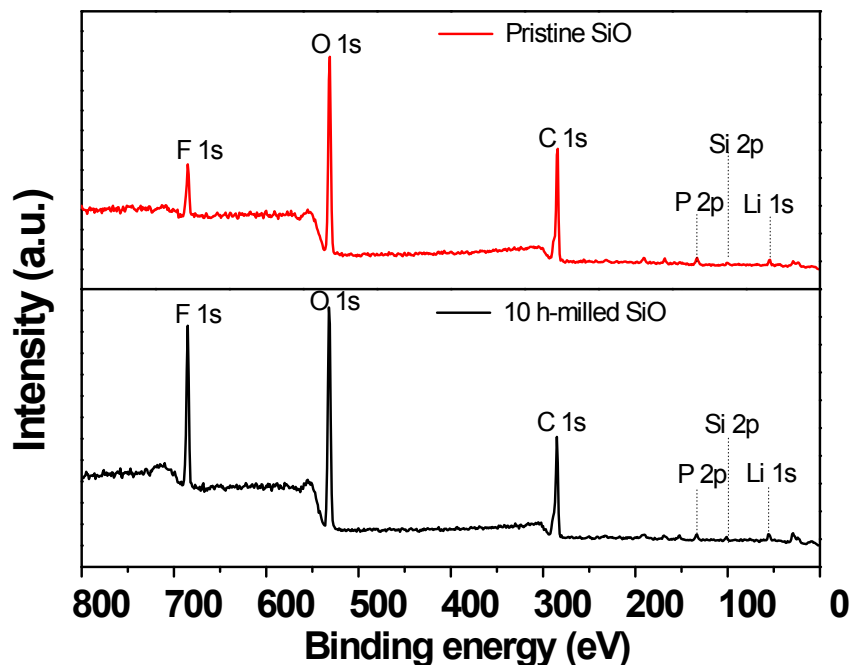


Figure S5 XPS survey spectra of pristine and 10 h-milled SiO electrodes after 150 cycles.

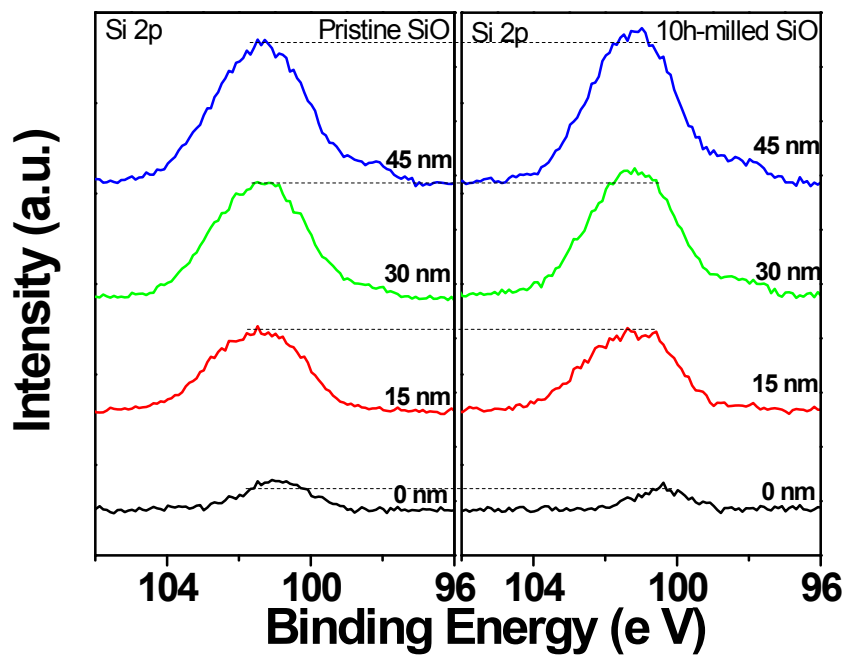


Figure S6 XPS spectra of Si 2p of the pristine and 10 h-milled SiO electrodes after 150 cycles as a function of depth.