

A Stable Nanoporous Silicon Anode Prepared by Modified Magnesiumthermic Reactions

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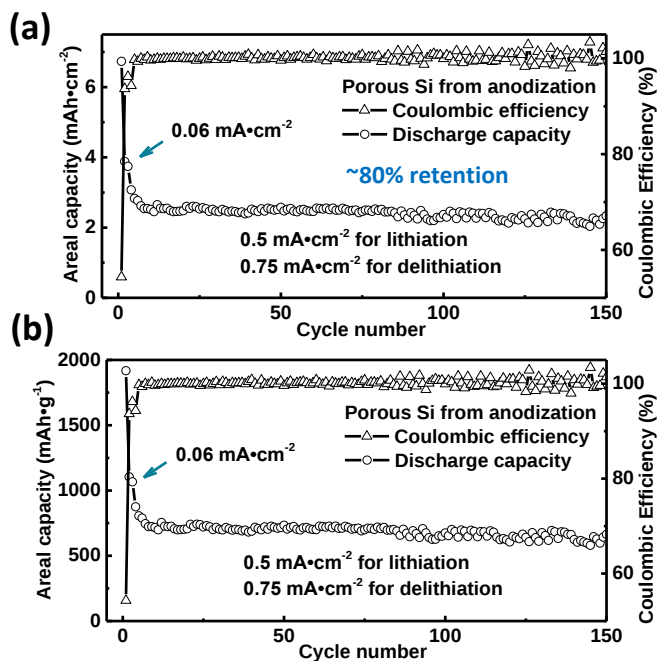


Figure S1. Cycling performance of electrochemically etched porous Si at 0.5 mA/cm² discharge (lithiation) and 0.75 mA/cm² (delithiation) charge current density. (a) areal capacity; (b) specific capacity.

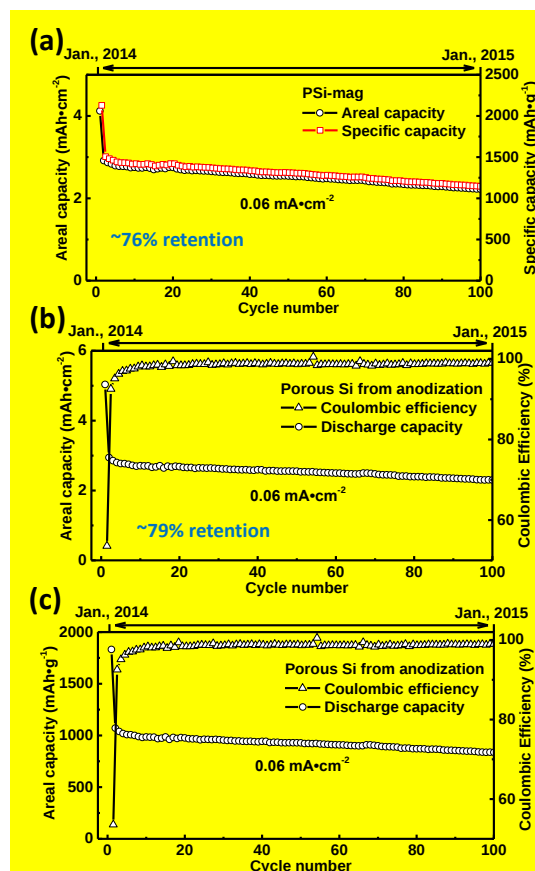


Figure S2. Cycling performance of PSi-mag (a) and electrochemically etched porous Si (b) areal capacity and (c) specific capacity at a low charge/discharge current density of $\sim 0.06 \text{ mA}/\text{cm}^2$.

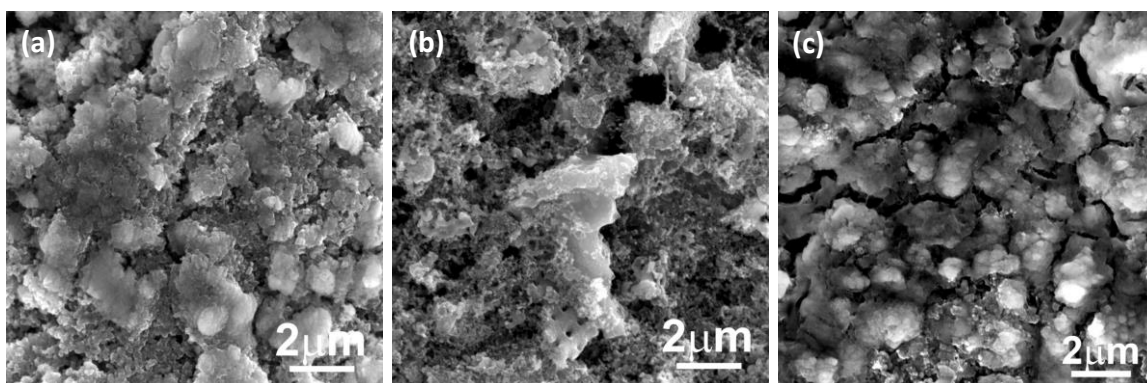


Figure S3. SEM image of (a) an EPSi-mag electrode after 100 cycles; (b) a pristine EPSi-mag electrode, and (c) PSi-mag electrode after 100 cycles.