

Electronic Supplementary Information (ESI) for

Silicon@Porous Nitrogen-doped Carbon Spheres Through a Bottom-up Approach Are Highly Robust Lithium-ion Battery Anodes

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SEM image of Si NPs

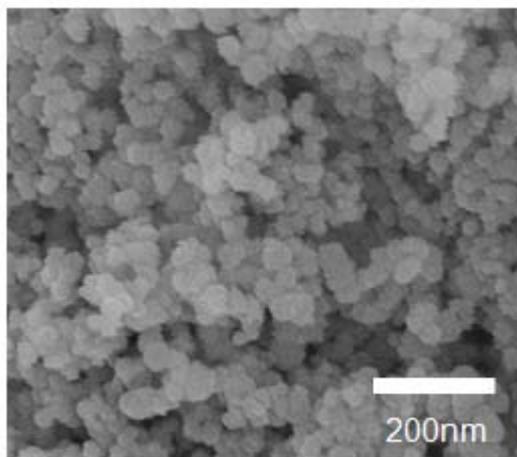


Fig. S1 A SEM image of Si NPs indicates that the diameters of Si NPs are ~30 nm.

Elemental contents of Si@NCS and NCS by XPS measurements

Table SI Elemental contents for Si@NCS and NCS samples.

Sample	C wt.%	N wt.%	O wt.%
NCS	87.46	8.03	4.51
Si@NCS	76.88	7.78	15.34

Pore size distribution of NCS and Si@NCS

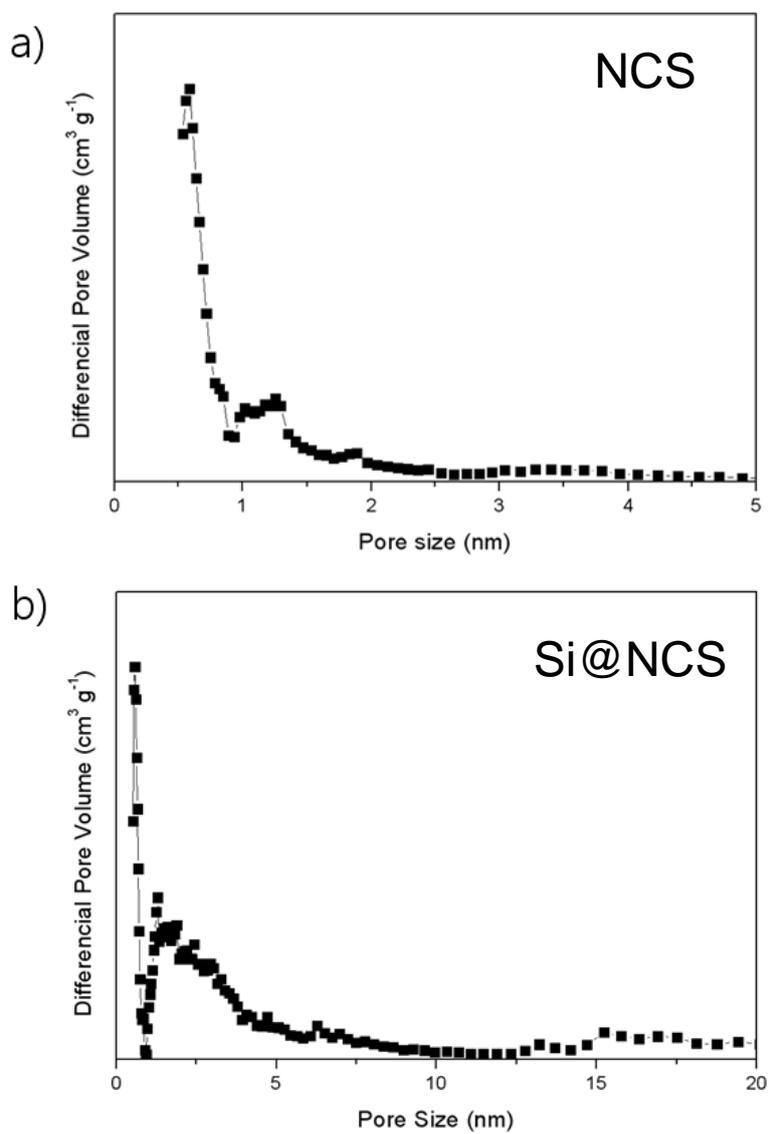


Fig. S2 Pore size distributions of (a) NCS and (b) Si@NCS calculated by a DFT method

Cyclic voltammetric measurements

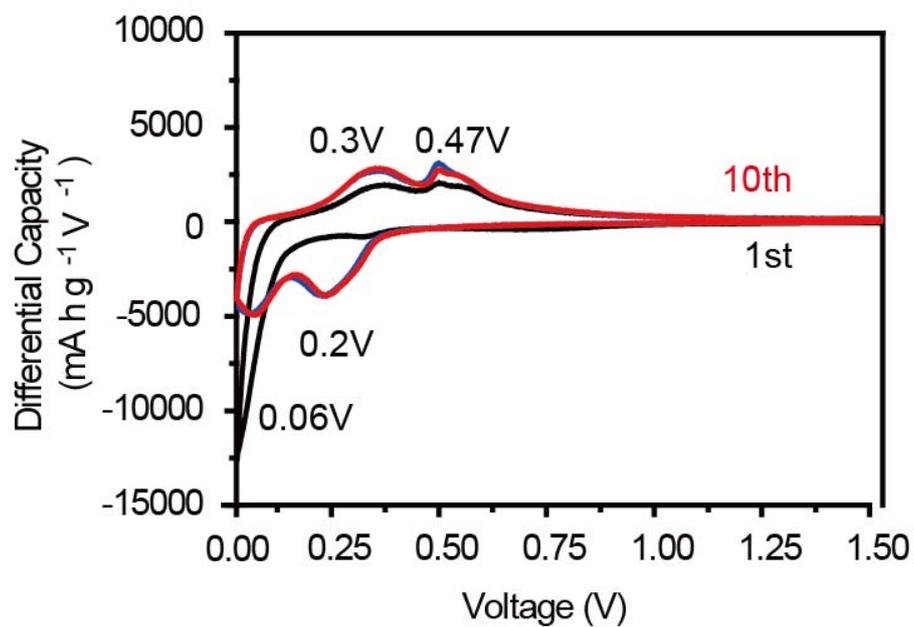


Fig. S3 Cyclic voltammetric data for Si@NCS at a scanning rate of 0.025 mV s⁻¹.

Thermal behavior of Si@NCS

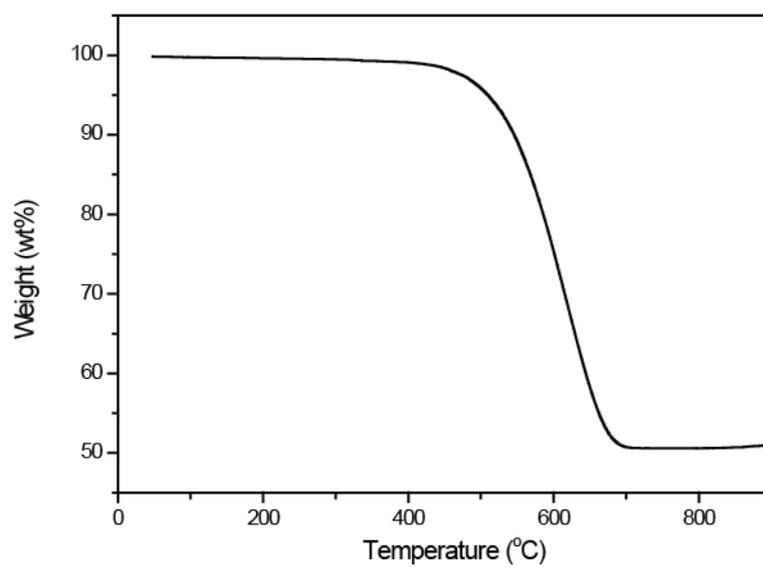


Fig. S4 Thermogravimetric analysis of Si@NCS in air indicates that Si accounts for ~50 wt.%.