

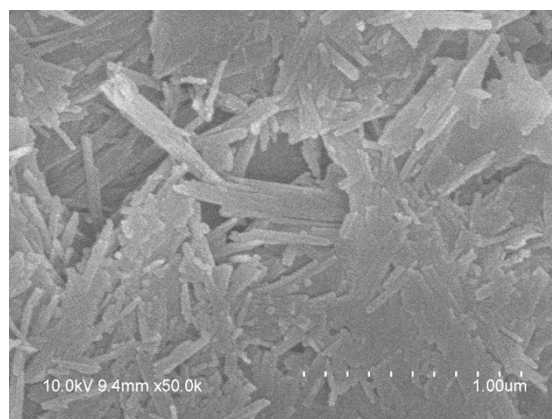
# **Preparation of uniform silicon nanoparticles for high-performance Li-ion battery anodes**

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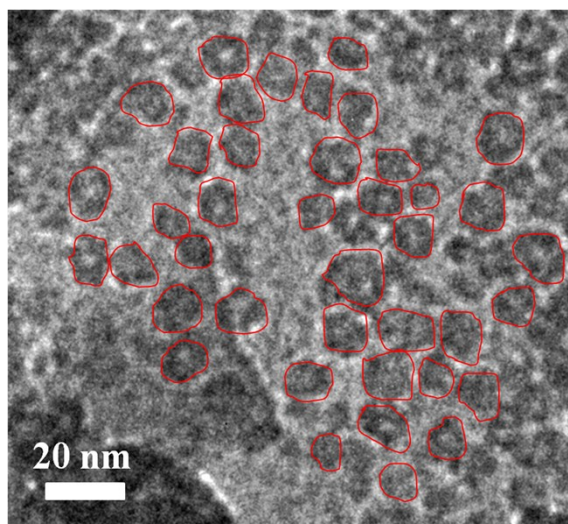
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**Fig. S1.** SEM image of raw attapulgite.



**Fig. S2** TEM image of bare Si NPs. Based on the marked 40 particles, the average size of Si NPs was determined as *ca.* 10.5 nm.

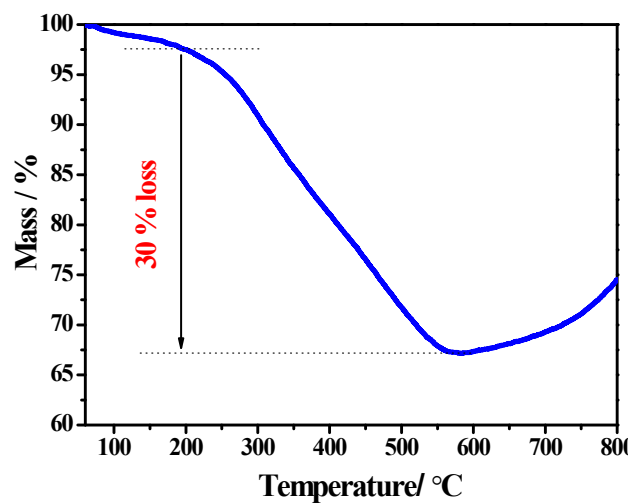


Fig. S3 TG curve of the ppy@Si nanocomposites.

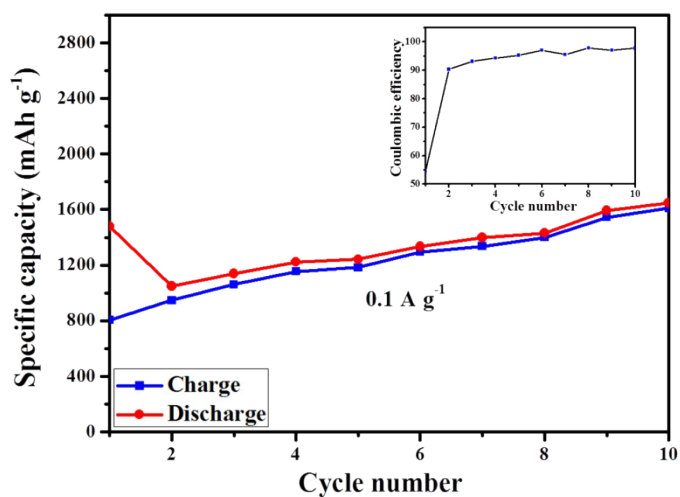


Fig. S4 First 10 charging-discharging cycles of ppy@Si nanocomposite at  $0.1 \text{ A g}^{-1}$  (Insert shows the corresponding coulombic efficiency)