Supporting information

Nanosilica/carbon Composite Spheres as Anode in Li-ion Batteries with Excellent Cycle Stability

Mingqi Li [a, b], Yan Yu [a], Jing Li [a], Baoling Chen [a], Xianwen Wu [a], Ye Tian [a] and P. Chen [a,*]

[a] Department of Chemical Engineering, University of Waterloo, Waterloo, N2L3G1 Canada

[b] College of Chemistry and Chemical Engineering, China West Normal University, Nanchong 637009, China

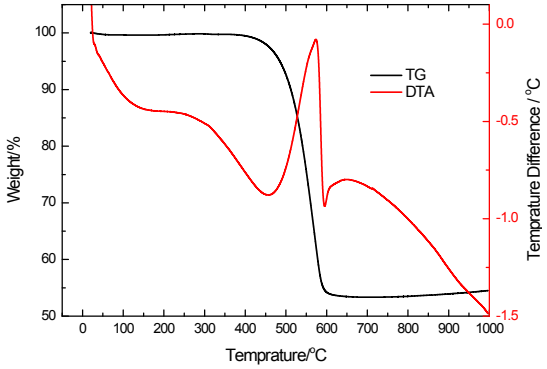

Figure S1 TG analysis curves of the nanosilica/carbon composite spheres

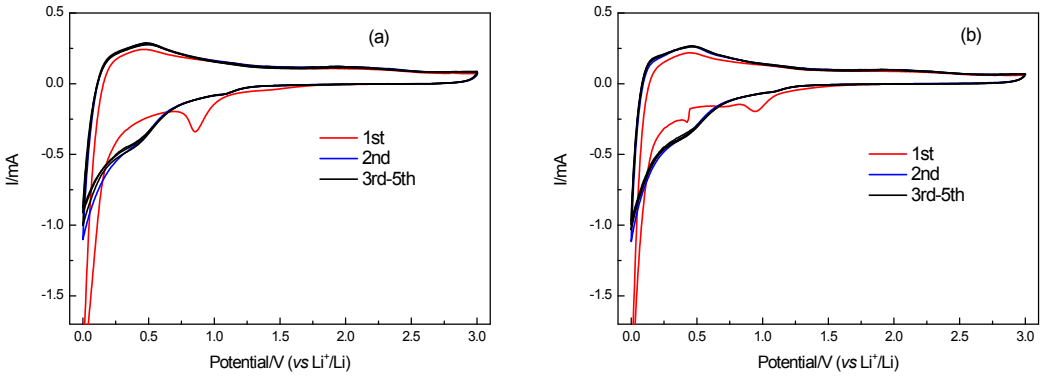

Figure S2 CV curves of the nanosilica/carbon composite spheres in electrolytes with VC additive (a) and without additives (b)

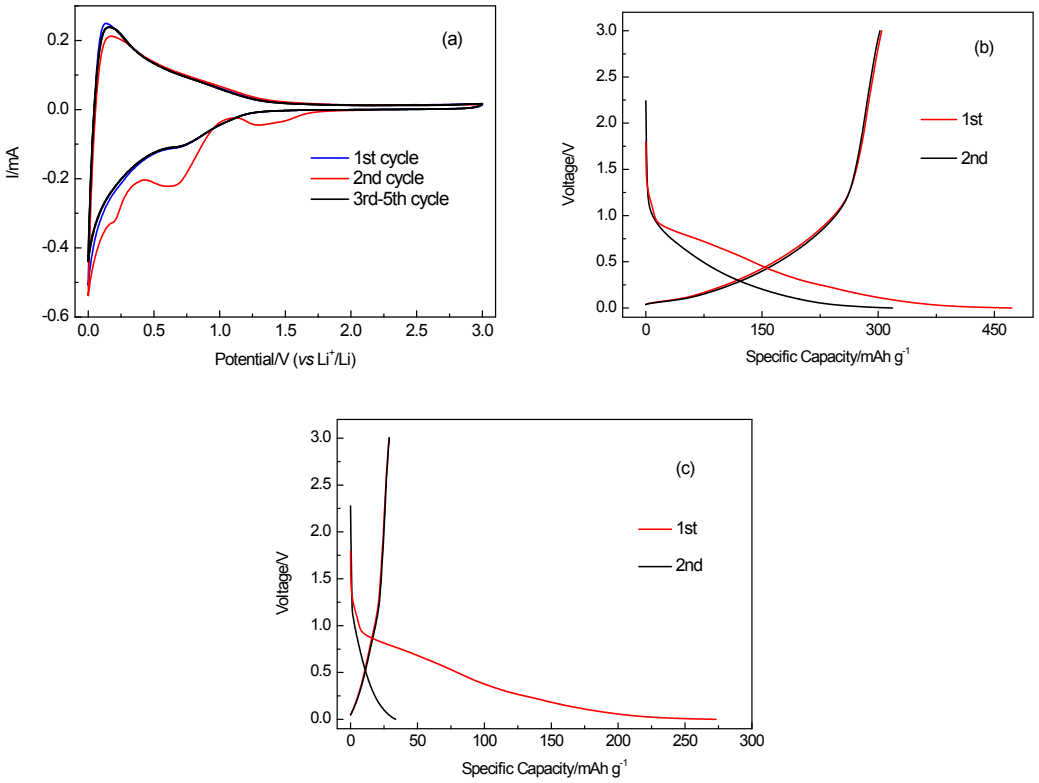

Figure S3 CV curves (a) and charge-discharge profiles (b) of the disordered carbon excluding nanosilica; Charge-discharge profiles of the pristine nanosilica (c)

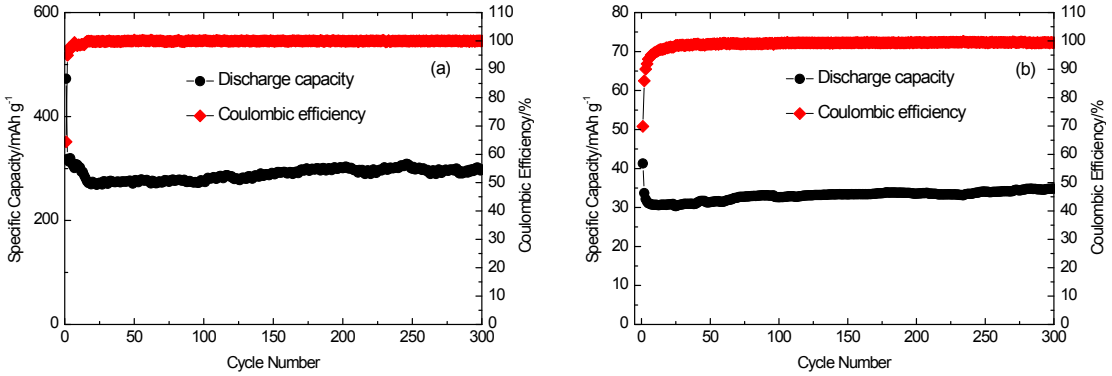

Figure S4 Cycle performance of the disordered carbon and pristine nanosilica composite spheres

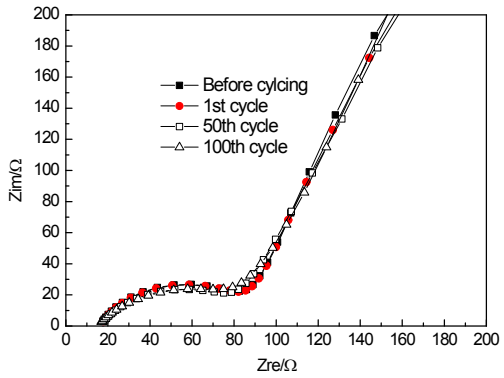

Figure S5 EIS of the nanosilica electrode before cycling and after different cycles