

Supplementary information for

Silica from diatom frustules as anode material for Li-ion batteries

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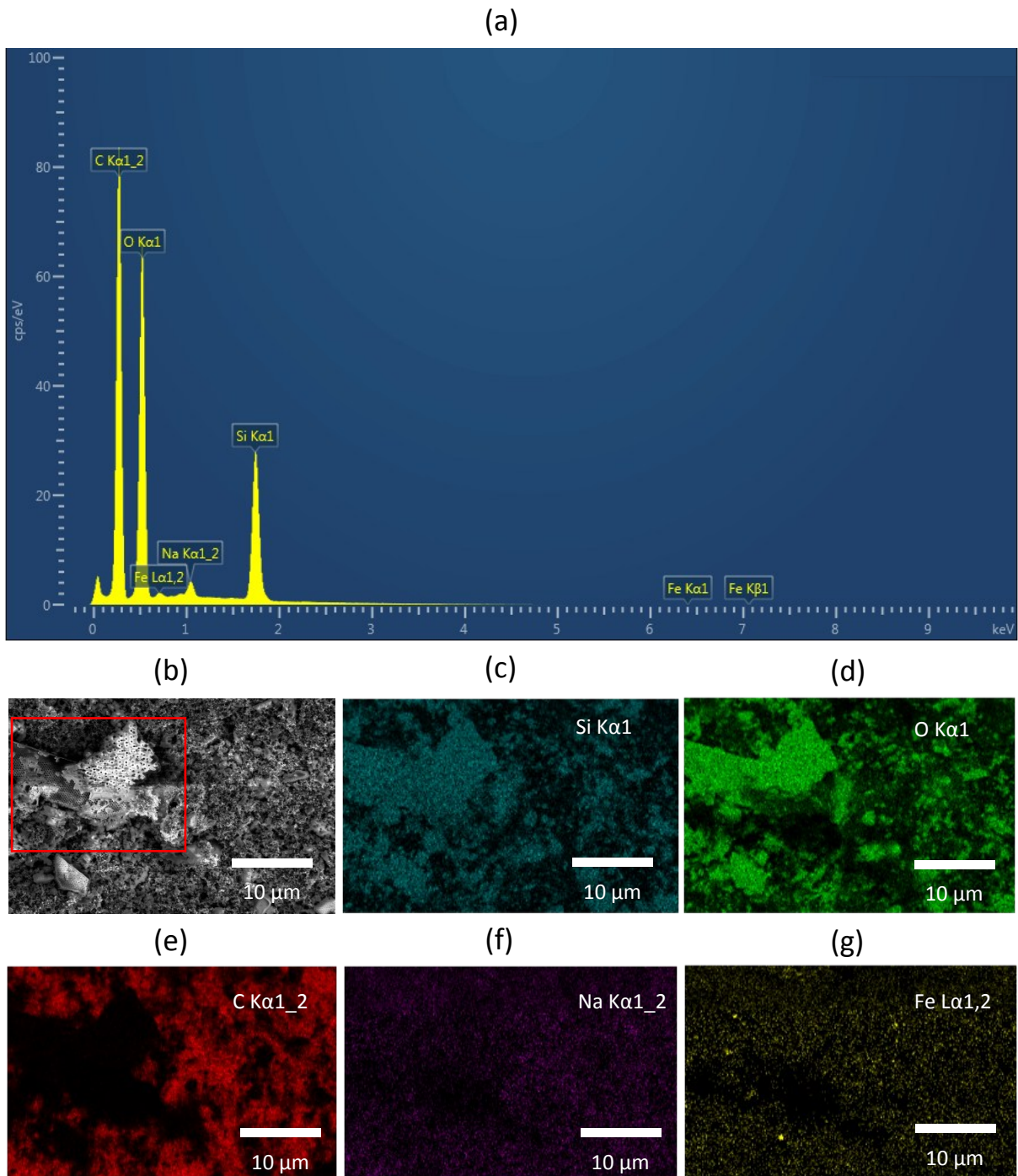


Fig. S1: EDX of uncycled SiO₂/P electrode. (a) Full spectrum, (b) SEM image of area analyzed with largest visible SiO₂ particle demarked, (c) Si Kα1 signal, (d) O Kα1 signal, (e) C Kα1,2 signal, (f) Na Kα1,2 signal, (g) Fe Lα1,2 signal.

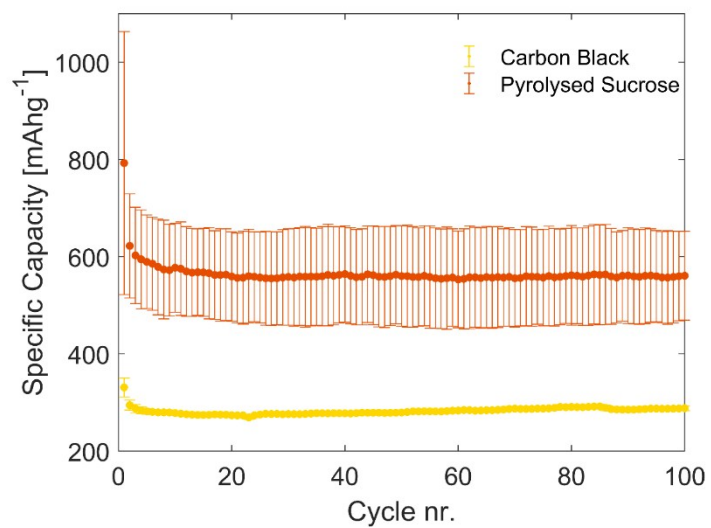


Fig. S2: Capacity of carbon reference cells.

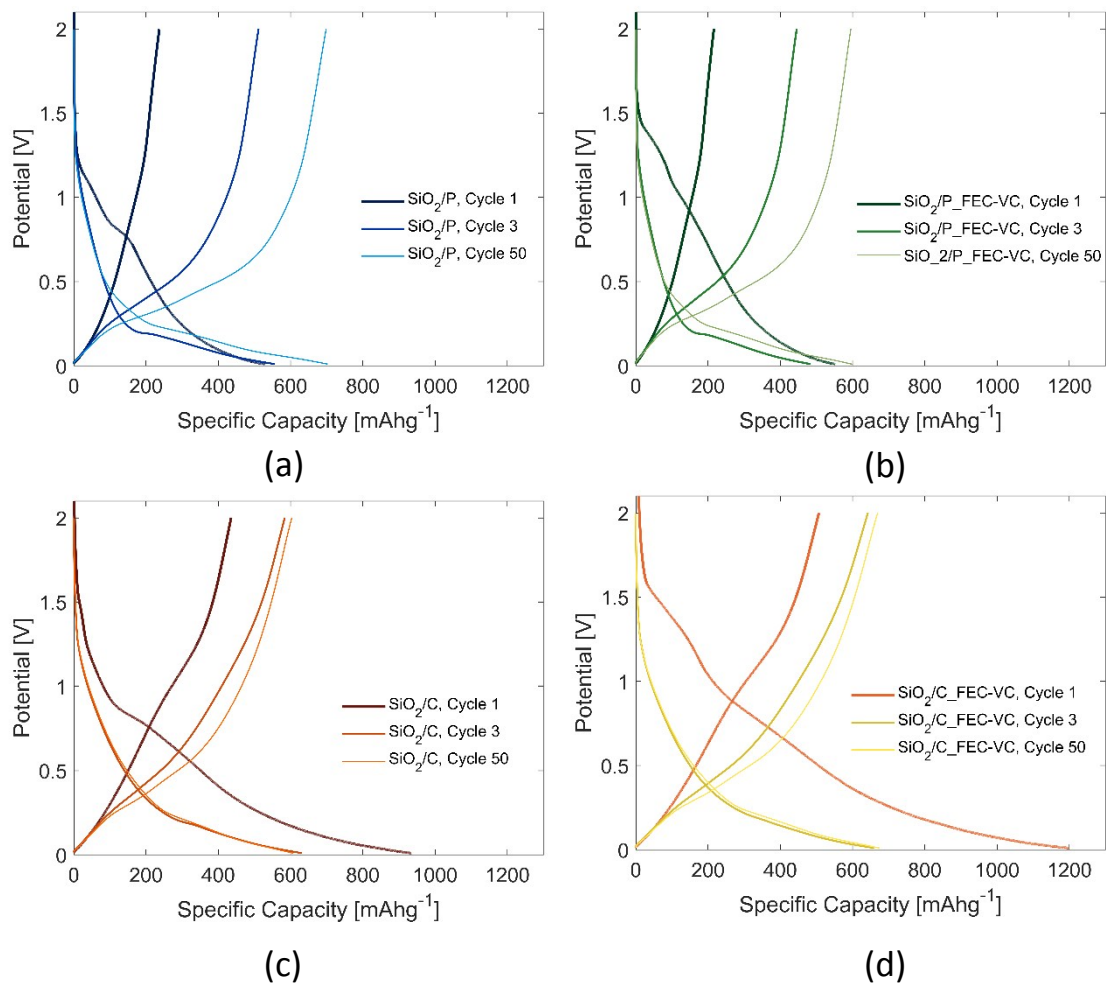
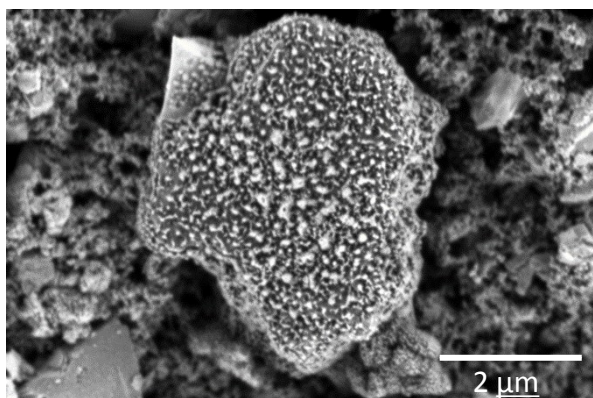
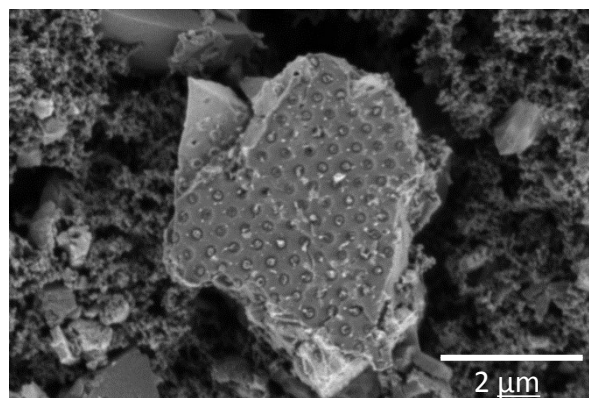


Fig. S3: Potential profile of cycle 1, 3 and 50 for (a) SiO₂/P, (b) SiO₂/P_FECVC, (c) SiO₂/C, (d) SiO₂/C_FECVC.



(a)



(b)

Fig. S4: SEM images of SiO₂ particle (a) before and (b) after removal of SEI with electron beam.