

Article

Assessing the electrochemical performance of different nanostructured CeO₂ samples as anodes for lithium-ion batteries

Farah Lamara, Nedjemeddine Bounar, Benjamín Solsona, Francisco J. Llopis, M.Pilar Pico, Daniel Alonso-Domínguez, M. Luisa López and Inmaculada Álvarez-Serrano

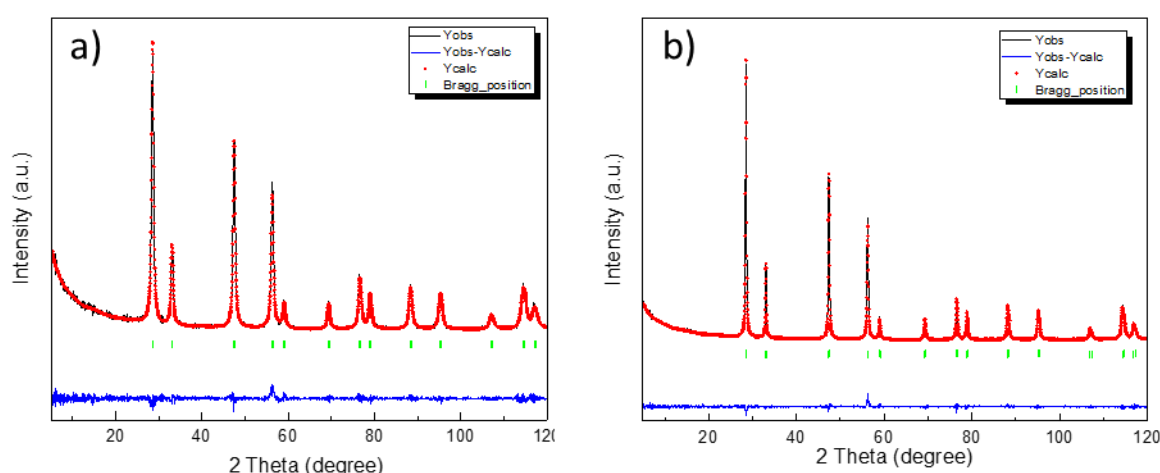


Figure S1. Rietveld profiles for a) Ce-pH7 and b) Ce-pH-13. Red points refer to the experimental data, black lines to the calculated profile, blue line indicate the difference between them and vertical green lines indicate the Bragg reflections.

Table S1. Rietveld factors from the refinements for the ceria anodes.

Notation	R _p	R _{wp}	R _B
Ce-pH13	7.18	11.2	1.86
Ce-pH7	7.80	11.5	1.14
Ce-ox	6.65	8.72	1.33
Ce-PMMA	3.90	5.94	1.15
Ce-CMK3	5.74	7.86	2.69
Ce-Ref	3.32	5.46	1.72

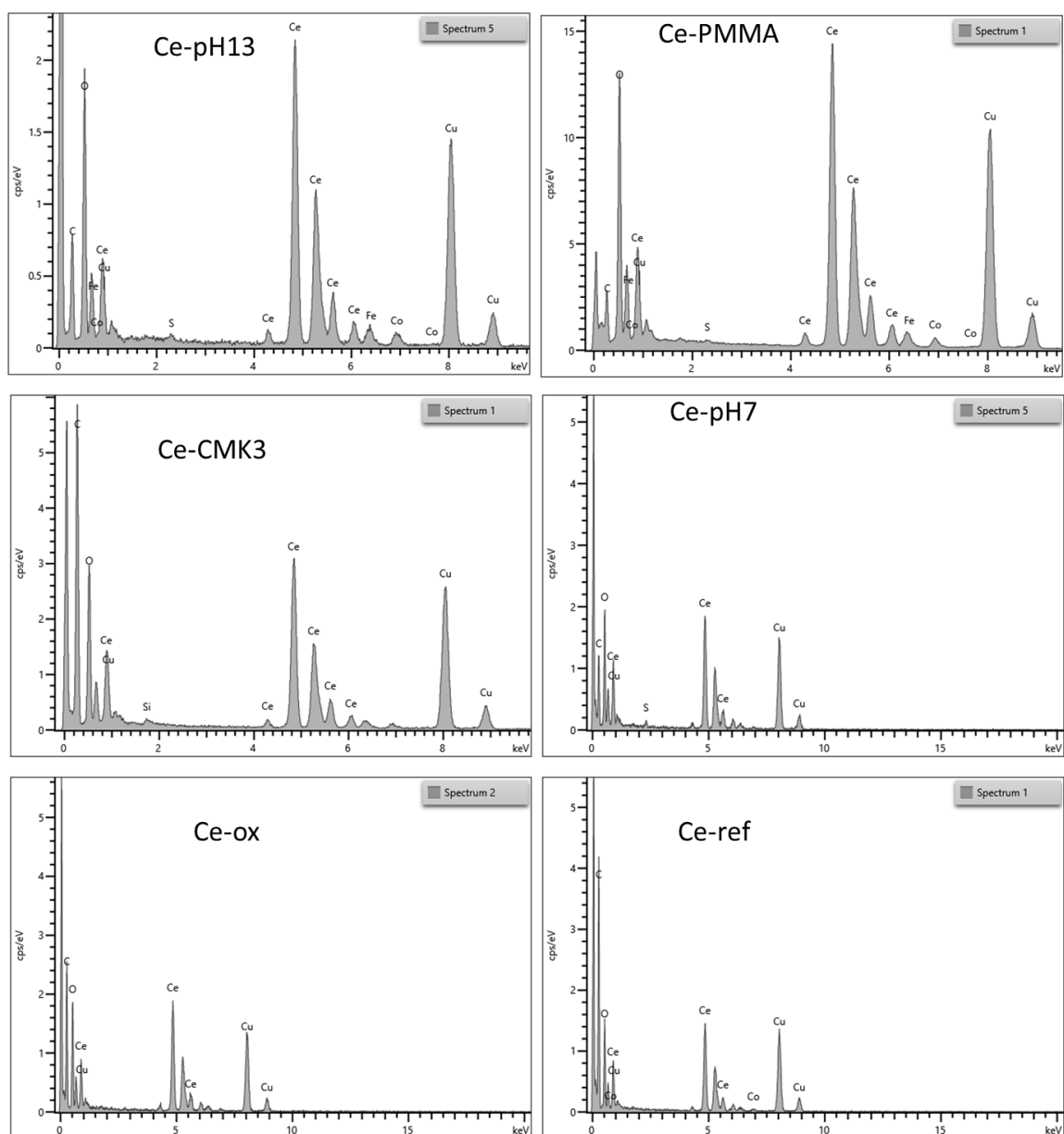


Figure S2. Representative EDX spectra for the ceria anodes.

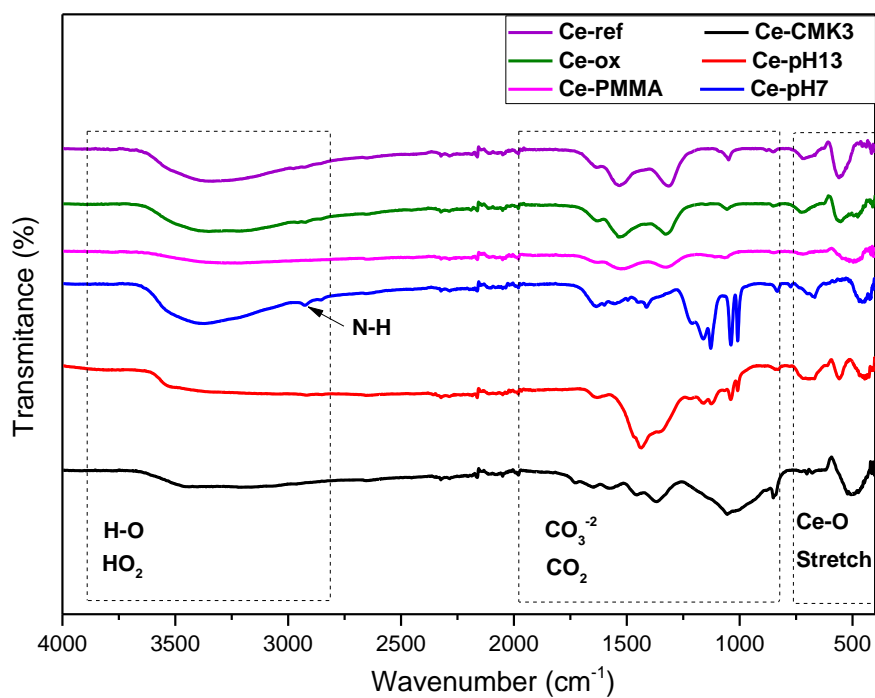


Figure S3. Representative FTIR spectra for the ceria anodes.

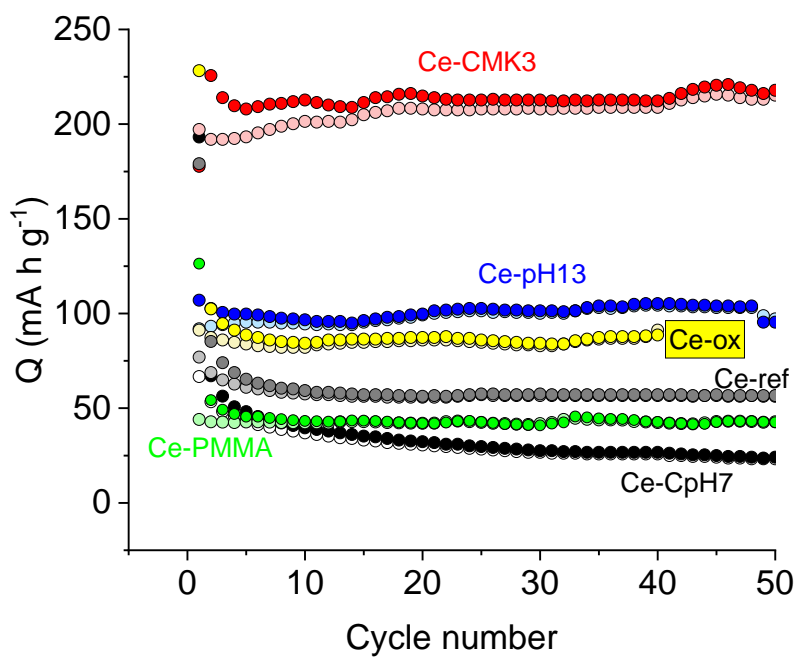


Figure S4. Comparative of charge (pale color) and discharge (intense color) capacity values during the first 50 cycles at 0.155 A g⁻¹ current rate for all the ceria anodes.