

CO₂ Capture by Reduced Graphene Oxide Monoliths with Incorporated CeO₂ Grafted with Functionalized Polymer Brushes

Nikolaos Politakos ^{1,*}, Luis Serrano Cantador ², Juan Antonio Cecilia ³, Iranzu Barbarin ¹, and Radmila Tomovska ^{1,4}

- ¹ POLYMAT, Facultad de Ciencias Químicas, University of the Basque Country UPV/EHU, Joxe Mari Korta Zentroa, Tolosa Etorbidea 72, 20018 Donostia-San Sebastián, Spain; iranzu.barbarin@ehu.eus (I.B.); radmila.tomovska@ehu.eus (R.T.)
- ² BioPren Group, Inorganic Chemistry and Chemical Engineering Department, Faculty of Sciences, University of Cordoba, 14014 Cordoba, Spain; iq3secal@uco.es (L.S.C.)
- ³ Inorganic Chemistry, Crystallography and Mineralogy Department, University of Malaga, 29071 Malaga, Spain; jacecilia@uma.es (J.A.C.)
- ⁴ Ikerbasque, The Basque Foundation for Science, Maria Diaz de Haro 3, 48013 Bilbao, Spain
- * Correspondence: nikolaos.politakos@ehu.eus

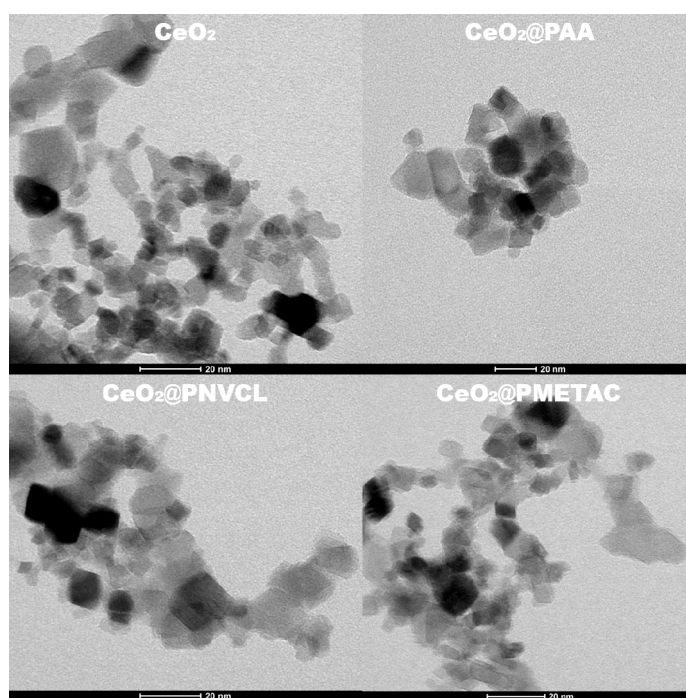


Figure S1. TEM images of the initial CeO₂ nanoparticles and with the different polymer brushes.

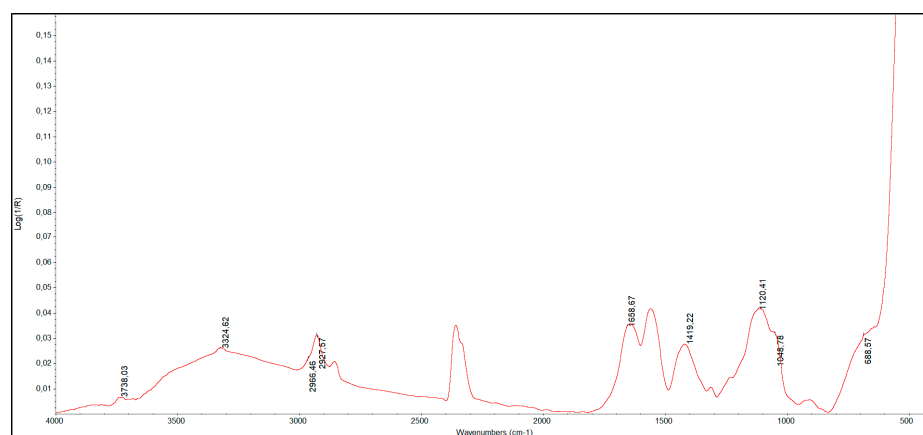
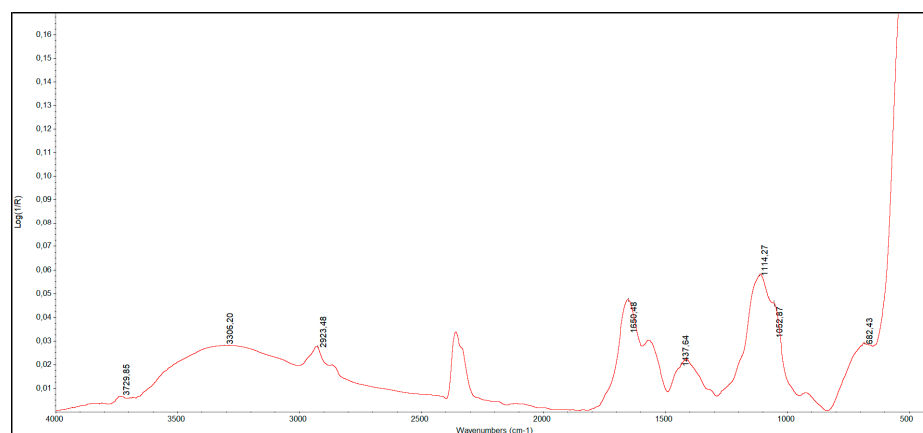
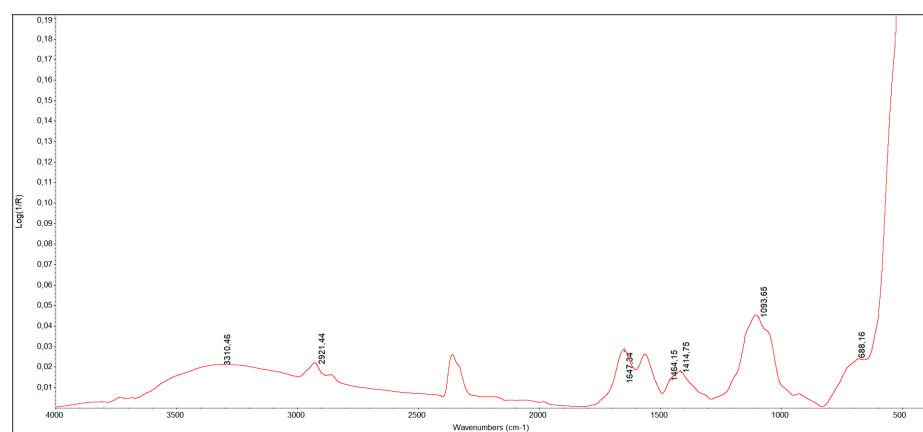
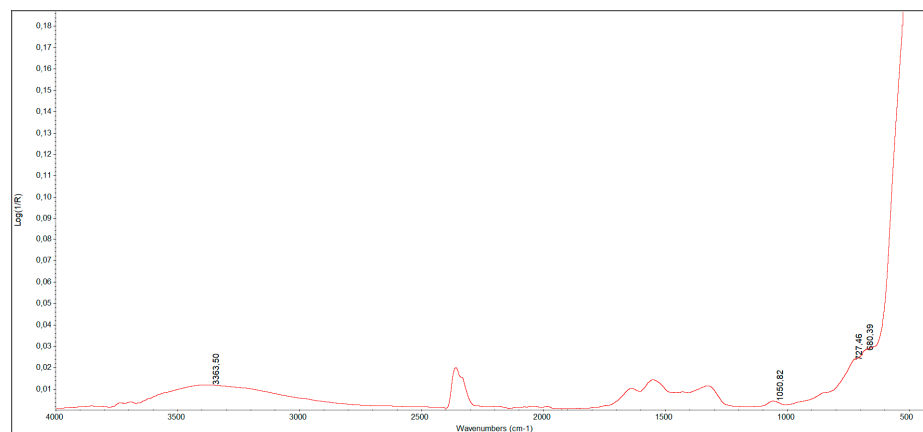


Figure S2. FTIR of all spectra, top to bottom for a) CeO_2 , b) $\text{CeO}_2@\text{PAA}$, c) $\text{CeO}_2@\text{PNVCL}$ and d) $\text{CeO}_2@\text{PMETAC}$.

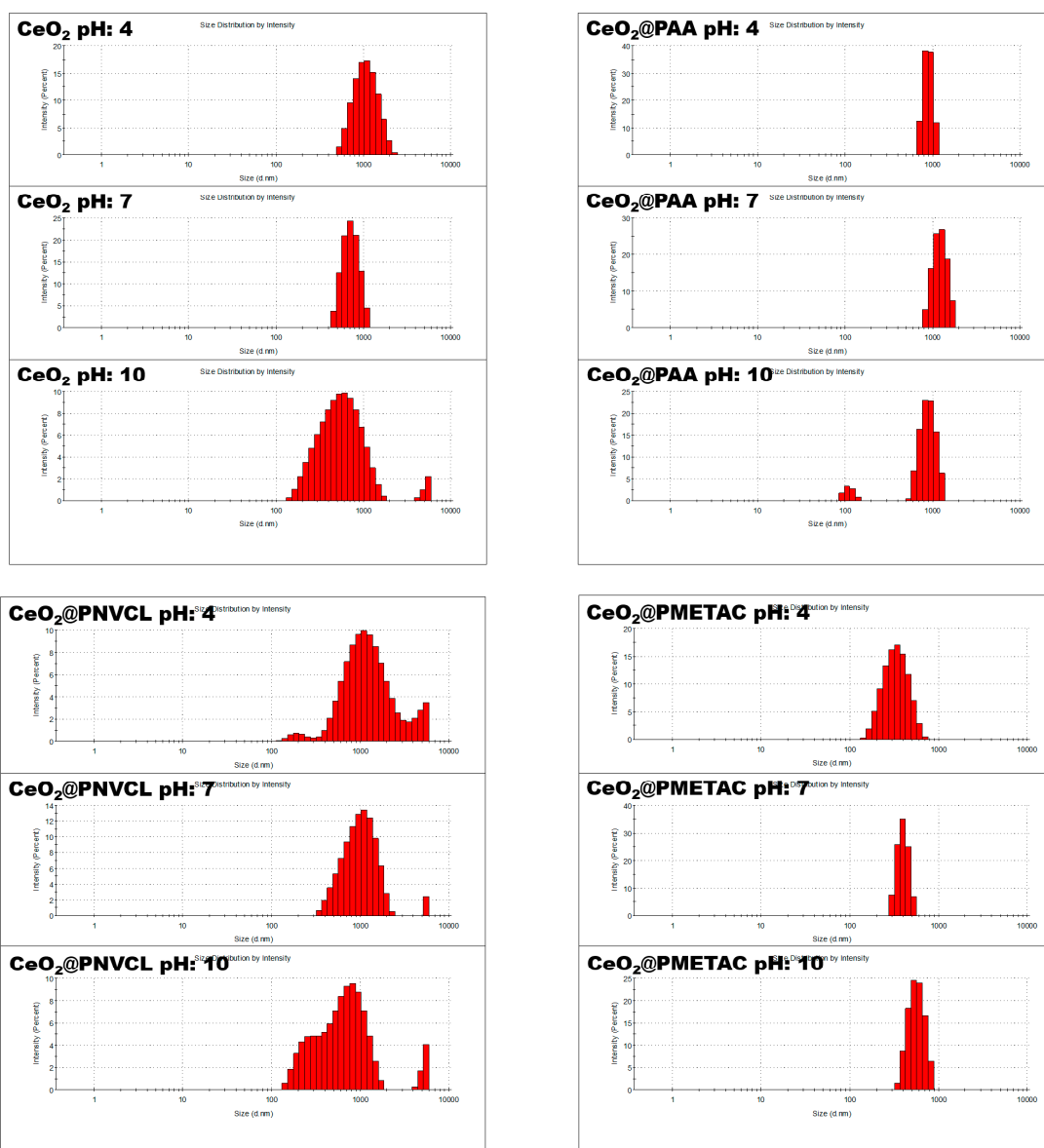


Figure S3. DLS size distribution by intensity for all samples and in all three pHs (4, 7 and 10).