

ELECTRONIC SUPPLEMENTARY INFORMATION

**Synthesis of Compositionally Graded Nanocast NiO/NiCo₂O₄/Co₃O₄
Mesoporous Composites with Tunable Magnetic Properties**

**Moisés Cabo, Eva Pellicer, Emma Rossinyol, Marta Estrader, Alberto López-Ortega,
Josep Nogués, Onofre Castell, Santiago Suriñach and Maria Dolors Baró**

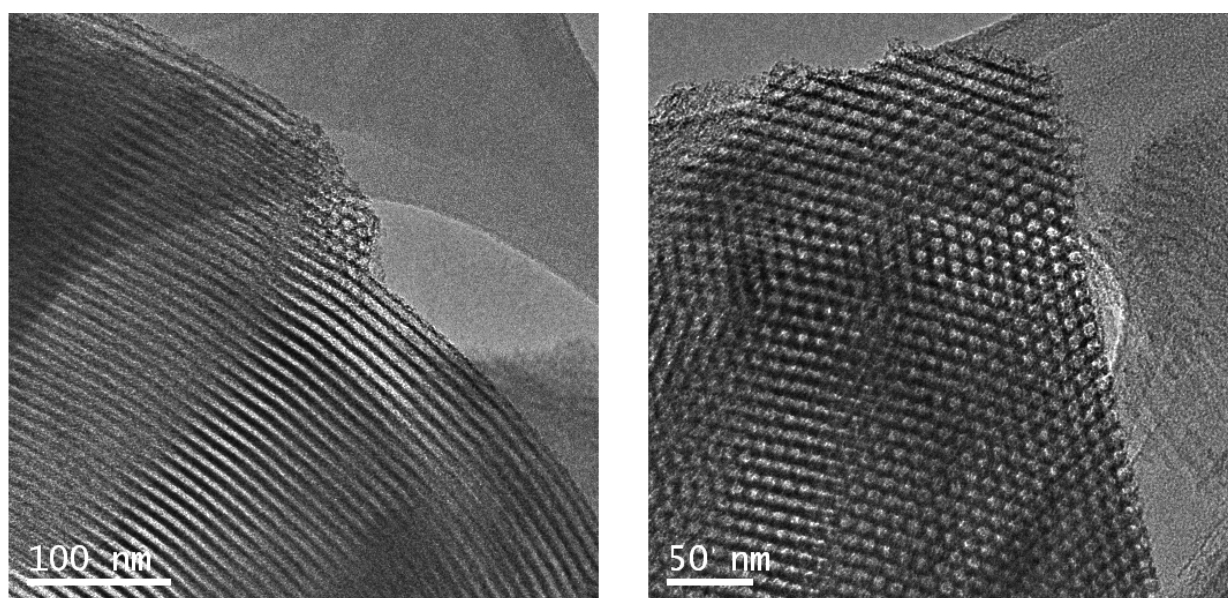


Fig. S1. TEM images of the SBA-15 silica template.

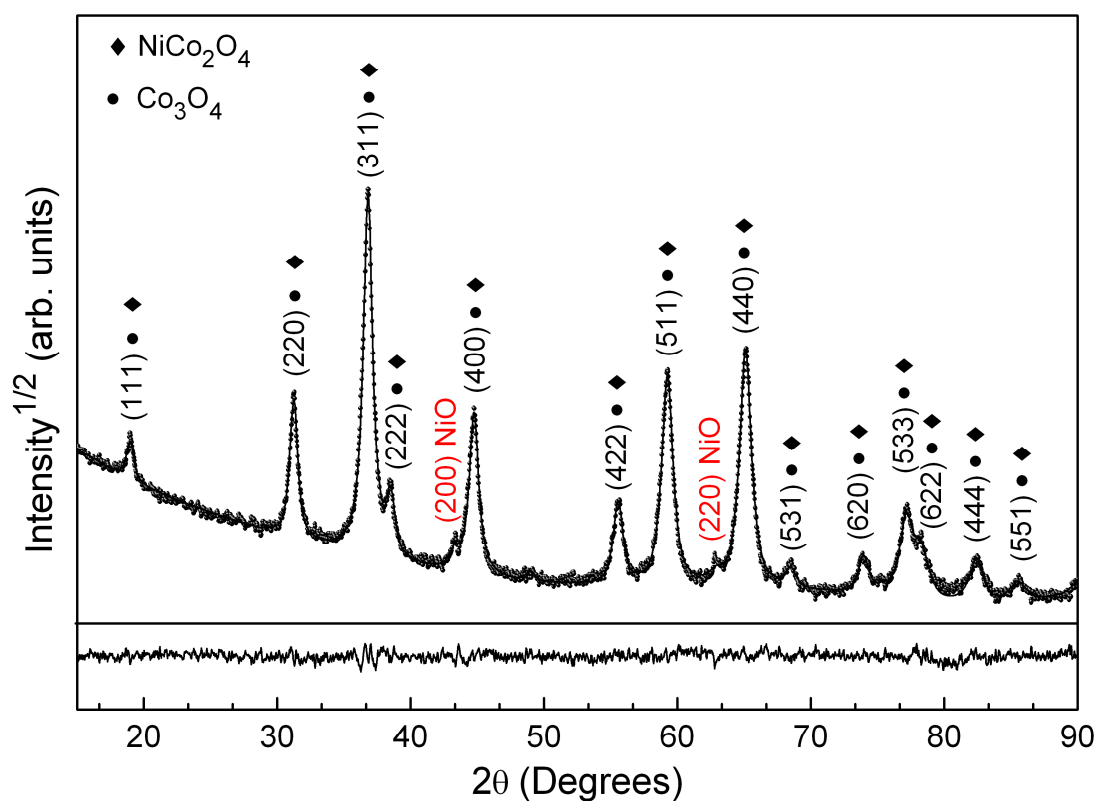


Fig. S2. Experimental pattern (●), Rietveld fitting (solid line) and Rietveld difference between the original and computed spectra (at the bottom) of the powder obtained from 0.25:1 Ni(II):Co(II) molar ratio of the metal precursors. The peaks at $2\theta = 43.4^\circ$ and 63.0° correspond to the (200) and (220) reflections, respectively of the NiO phase (JCPDF 73-1519). Goodness of fitting, $R_w = 9.27$.

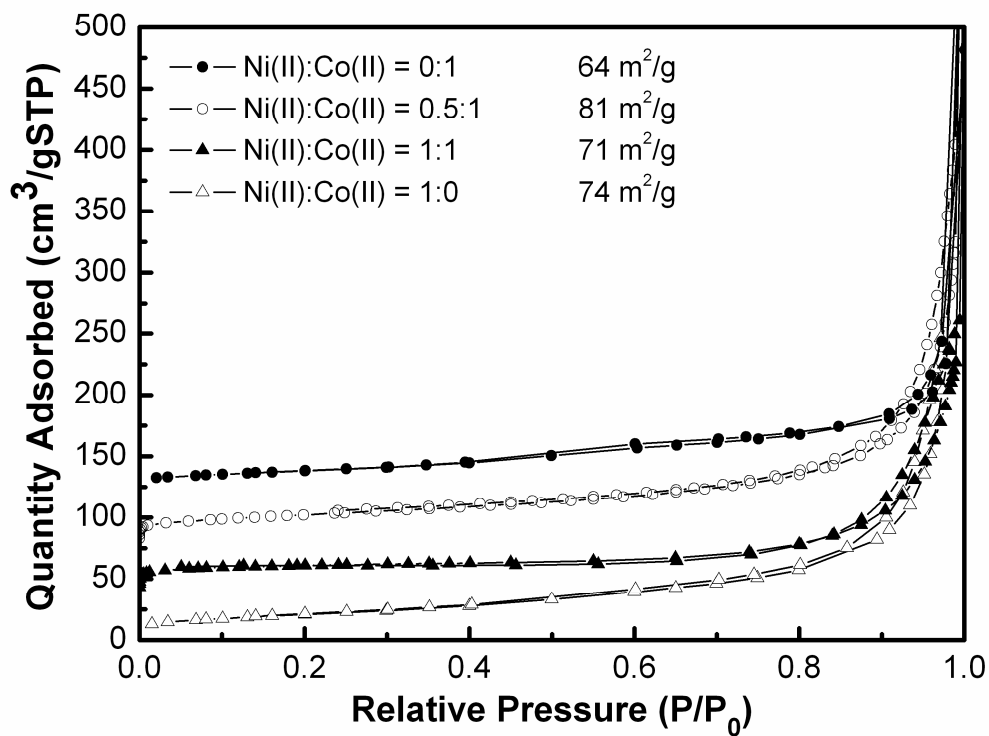


Fig. S3. Typical N₂ adsorption-desorption isotherms and corresponding BET areas of the powders obtained from the indicated Ni(II):Co(II) molar ratios.