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Supplementary Information

Physicochemical characterization and hydrothermal stability investigation of cobalt-incorporated silica xerogels

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Figure S1: Peak decomposition of ²⁹Si CP/MAS NMR spectrum of 0.10CoSi sample.



Figure S2: N_2 adsorption (solid line) and desorption (open symbols) isotherms of the xerogels exposed to 75 mol% vapour at 550 °C for (a) 0 h, (b) 20 h, and (c) 40 h.



Figure S3: Raman spectra of the xerogels exposed to 75 mol% vapour at 550 °C and 40 h: (A) 0.05CoSi, (B) 0.10CoSi, (C) 0.15CoSi, (D) 0.25CoSi and (E) 0.50CoSi



Figure S4: ²⁹Si CP/MAS NMR spectra of (a) 0.10CoSi and (b) 0.25CoSi before and after treatment (550 °C, 75 mol% vapour and 40 h)