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hcp and *fcc* Nickel Nanoparticles Prepared from Organically Functionalized layered Phyllosilicates of Nickel(II)

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Supplementary materials

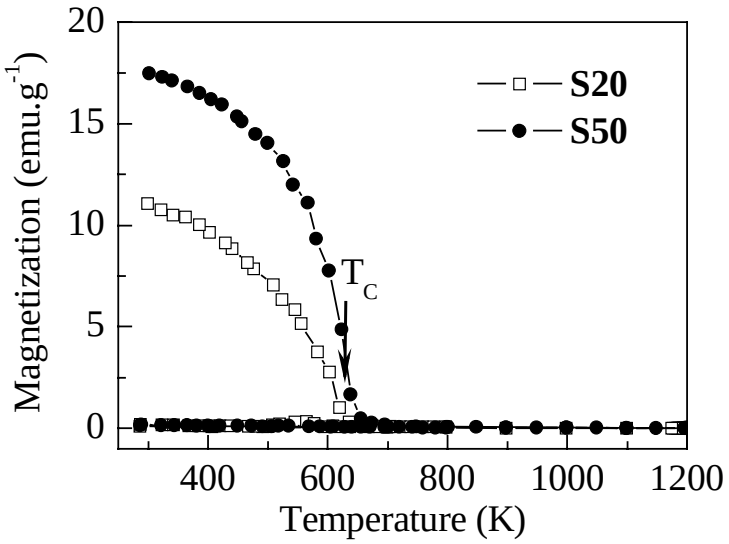

Figure S1: Temperature dependence of the in-situ magnetization in an applied field of 5.9 kOe on increasing and decreasing temperature from 295 to 1200 K under 5%H_2/N_2, for **S20** (open squares) and **S50** (filled circles).

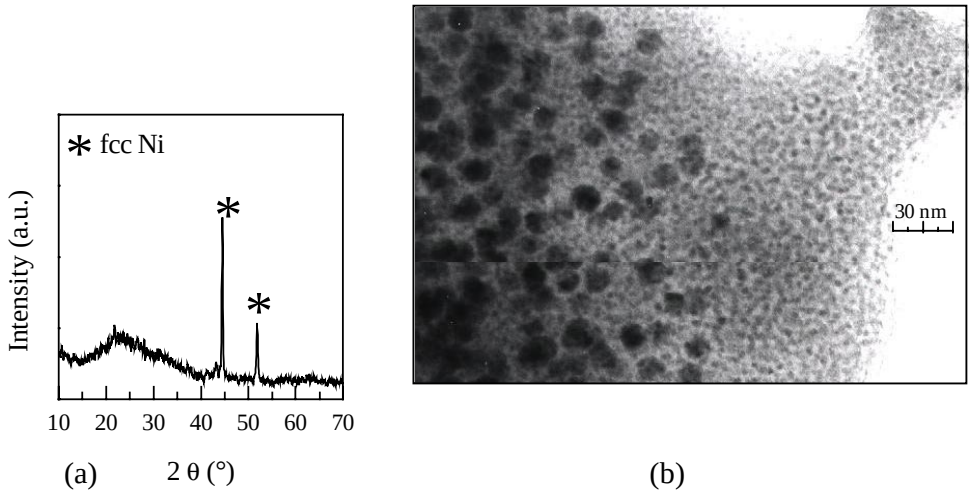

Figure S2: (a) X-ray diffraction pattern of the TGA residue (Ar, 773 K) showing the presence of *fcc*-Ni metal (sharp Bragg reflections) and amorphous silica (broad structure at 20-25°), (b) TEM image of the residue revealing the presence of nanometer sized particles, average 15 nm in the body and 3 nm at the edges.

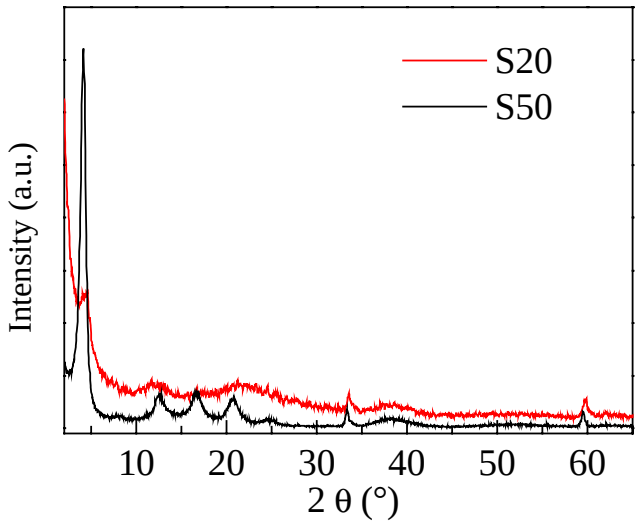

Figure S3: X-ray diffraction patterns of **S20** and **S50**.

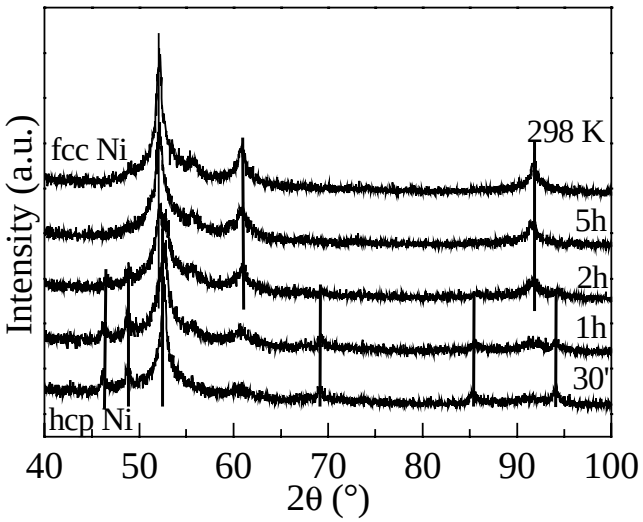

Figure S4: Evolution of the X-ray diffraction pattern under vacuum of **S20** as a function of annealing time at 573 K.

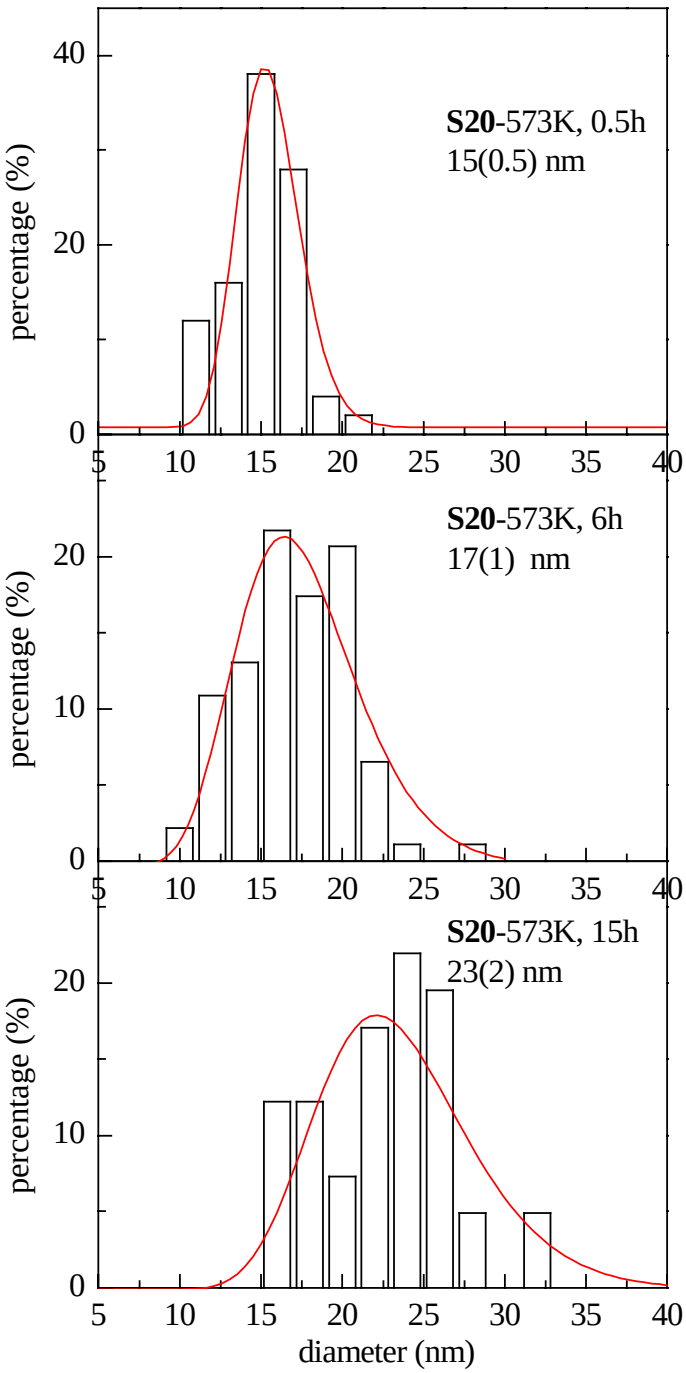

Figure S5: Size distributions for sample **S20** annealed at 573 K, under Ar, for different time.

In red : fit of the distribution with a log-normal law.