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Supplementary Information

Nickel-Doped Ceria Nanoparticles: The Effect of Annealing on Room Temperature Ferromagnetism. *Crystals* 2015, *5*, 312-326

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Supporting Information

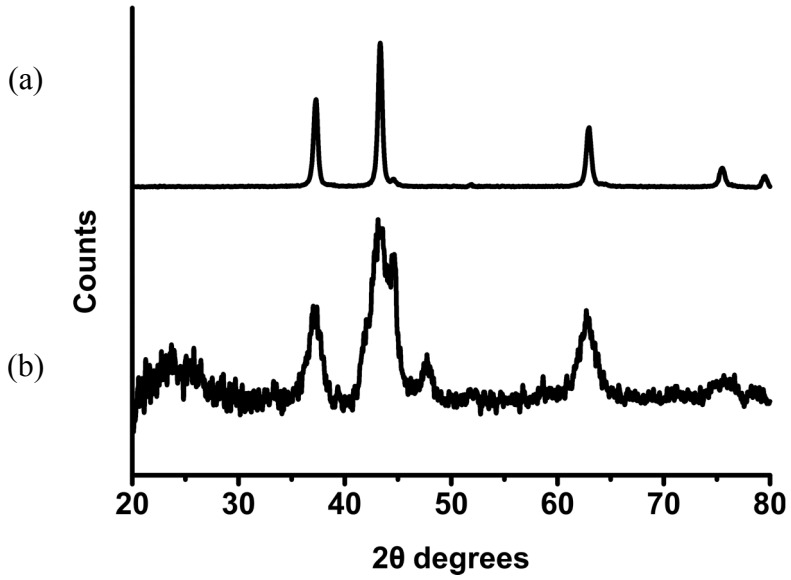

Figure S1. Powder X-ray diffraction patterns of (**a**) Annealed NiO nanoparticles and (**b**) NiO nanoparticles pre-annealed on glass showing a greater concentration of nickel metal at 45°. The amorphous peak on the bottom pattern < 30° is that of glass.

Table S1. Unit cell parameters and unit cell volumes of the different Ni-CeO_2 samples from powder X-ray diffraction pattern refinement.

Sample	Lattice Parameter/Å	Cell Volume/Å^3	Lattice Type
1	5.4097 ± 0.0055	158.32 ± 0.1605	Cubic
2	4.1787 ± 0.0042	72.97 ± 0.0731	Cubic
3	5.3863 ± 0.0141	156.27 ± 0.4096	Cubic
4	5.4065 ± 0.0062	158.04 ± 0.1819	Cubic
5	5.3904 ± 0.0140	156.62 ± 0.4072	Cubic
6	5.4086 ± 0.0046	158.22 ± 0.1342	Cubic
7	5.3888 ± 0.0205	156.49 ± 0.5951	Cubic
8	5.3872 ± 0.0191	156.35 ± 0.5536	Cubic
9	5.4125 ± 0.0064	158.56 ± 0.1886	Cubic
10	5.3973 ± 0.0157	157.23 ± 0.4577	Cubic
Ideal CeO_2	5.4110	158.43	Cubic
Ideal NiO	4.1684	72.43	Cubic