

## Supplementary Information (SI)

### Ionic Liquid Assisted Nanofabrication of Ferromagnetic Co-doped La-Ce Ferrites

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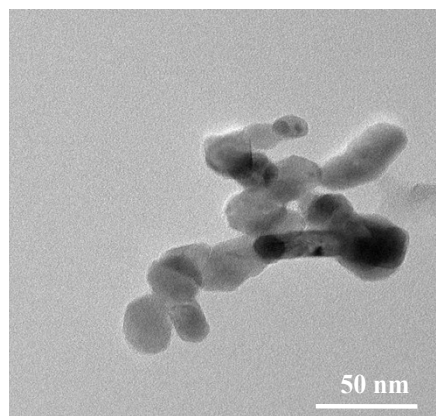


Fig.S1. TEM image of LaFeO<sub>3</sub> NPs synthesized by ILS (50 mM) assisted hydrothermal route.

**Table S1.** Particle size and Morphology of undoped La-Ce ferrite NPs as a function of concentration of ILS.

Conc. of ILS (mM)	Average crystallite size (nm)	Particle size from TEM (nm)	Morphology of NPs
0	22	25-30	Aggregated spherical
10	20.2	14-22	Spherical in sheet like network
50	23.1	15-25	Interconnecting rods and spherical
200	24.2	27-34	Rods and spherical