SUPPLEMENTARY INFORMATION OF THE MANUSCRIPT:

Enhanced magnetic coercivity of α-Fe₂O₃ obtained from carbonated 2-line ferrihydrite

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Fig. SI-1. Electron Energy Loss Spectroscopy (EELS) spectrum of carbonated 2-line ferrihydrite showing a sharp peak at ~ 290 eV, which corresponds to the carbon K-edge adsorbed or co-precipitated in the ferrihydrite structure.
Fig. SI-2. Variation of the Scherrer crystallite size and particle size of $\alpha$-Fe$_2$O$_3$ with temperature. Particle size data has been calculated from the average length and width of 100 nanoparticles.
Fig. SI-3. Particle dimensions of $\alpha$-Fe$_2$O$_3$ obtained at 350, 600, 800 and 1000 °C. For each temperature the particle dimensions were evaluated by measuring the width and length of 100 particles from HR-TEM and SEM photomicrographs.