## Pair distribution function (PDF) analysis of mesoporous $\alpha\text{-}\mathrm{Fe_2O_3}$ and $\mathrm{Cr_2O_3}$

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**Figure S1** Plots of the diffraction data (red points) with the associated Rietveld fits (blue lines) and differences (magenta lines) of; (a) bulk  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>, (b) mesoporous  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>, (c) bulk Cr<sub>2</sub>O<sub>3</sub>, and (d) mesoporous Cr<sub>2</sub>O<sub>3</sub>. Markers shoing the Bragg reflection positions are shown below (green). Note the square root y scale.