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## **Supporting Information**

Figure S1: X-Ray diffraction data of LSC64 (T=25°C).

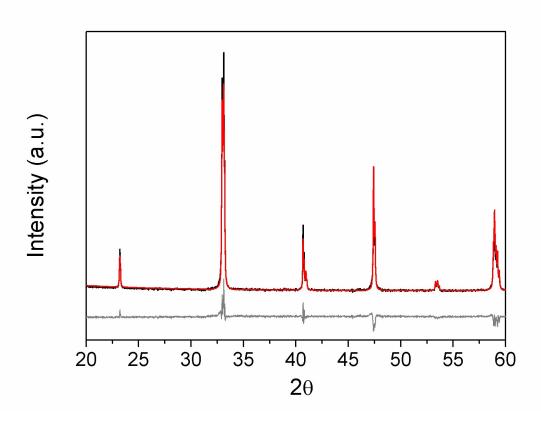


Figure S2: In situ high-temperature X-Ray diffraction data of LSC64 (p $O_2$ =0.209 atm): (a) general view and (b) zoom.

