Supplementary Material to the article "Electronic and magnetic properties of strongly non-stoichiometric solid solutions $Sr_{1-x}La_{x-y}Fe_{1-z}Co_zO_{3-\delta}$ for pseudocapacitor electrode"

X-ray powder diffraction studies were performed at room temperature on a STADI-P diffractometer (STOE, Germany) in Cu Kα radiation in the angle interval (2θ) from 5^o to 120^o with a step of 0.03^o. The figure S1 shows the diffraction pattern of a cubic ferrite of the composition $Sr_{0.5}La_{0.5}FeO_{2.65}$ with lattice parameters $a_c = b_c = c_c = 3.9107$ Å and $\alpha = \beta = \gamma = 90^o$. Narrow intense reflexes indicate a cubic perovskite structure with a statistical distribution of oxygen vacancies in the 3*d* Wyckoff positions of oxygen atoms.

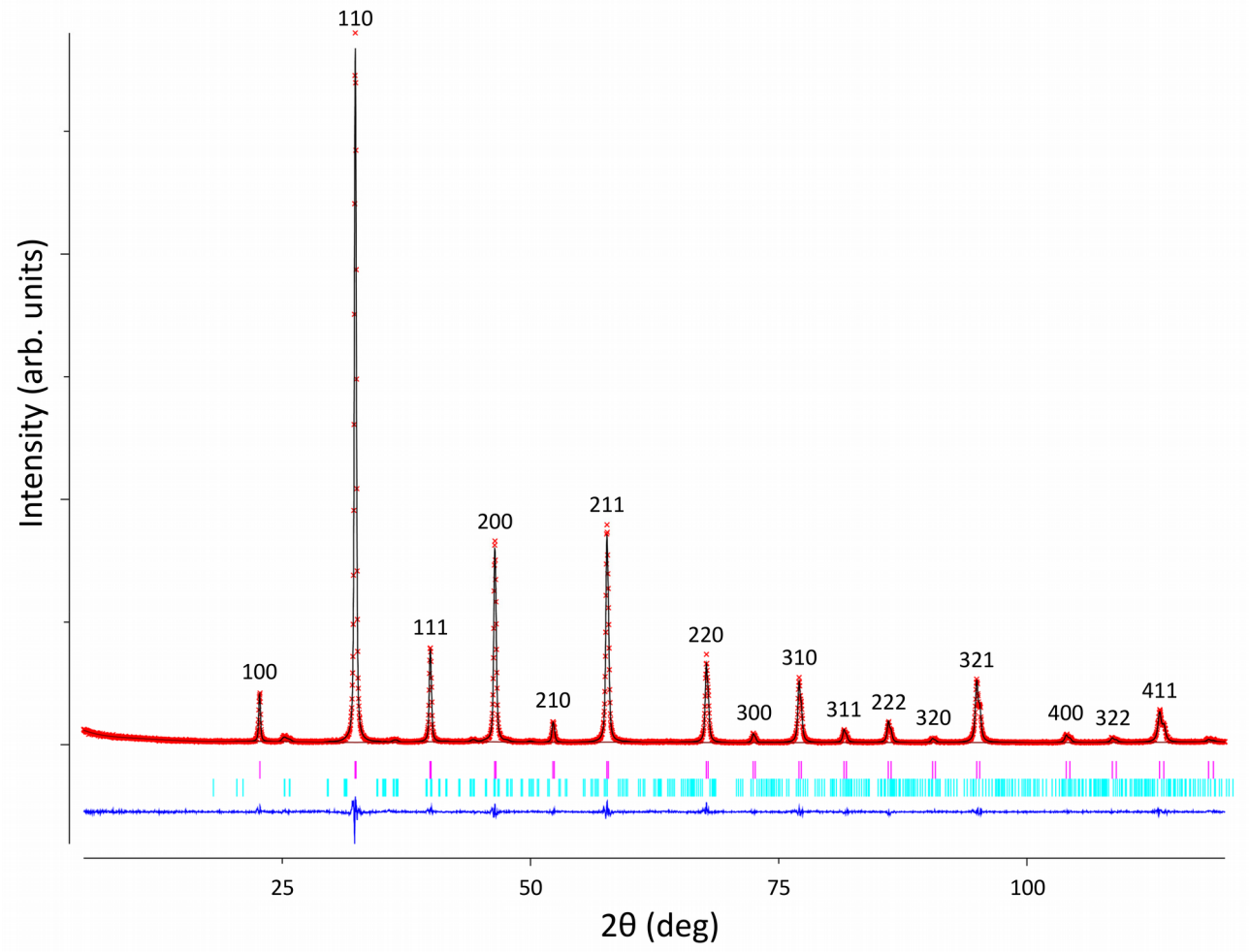

Fig. S1. X-ray diffraction pattern of $Sr_{0.5}La_{0.5}FeO_{2.65}$.