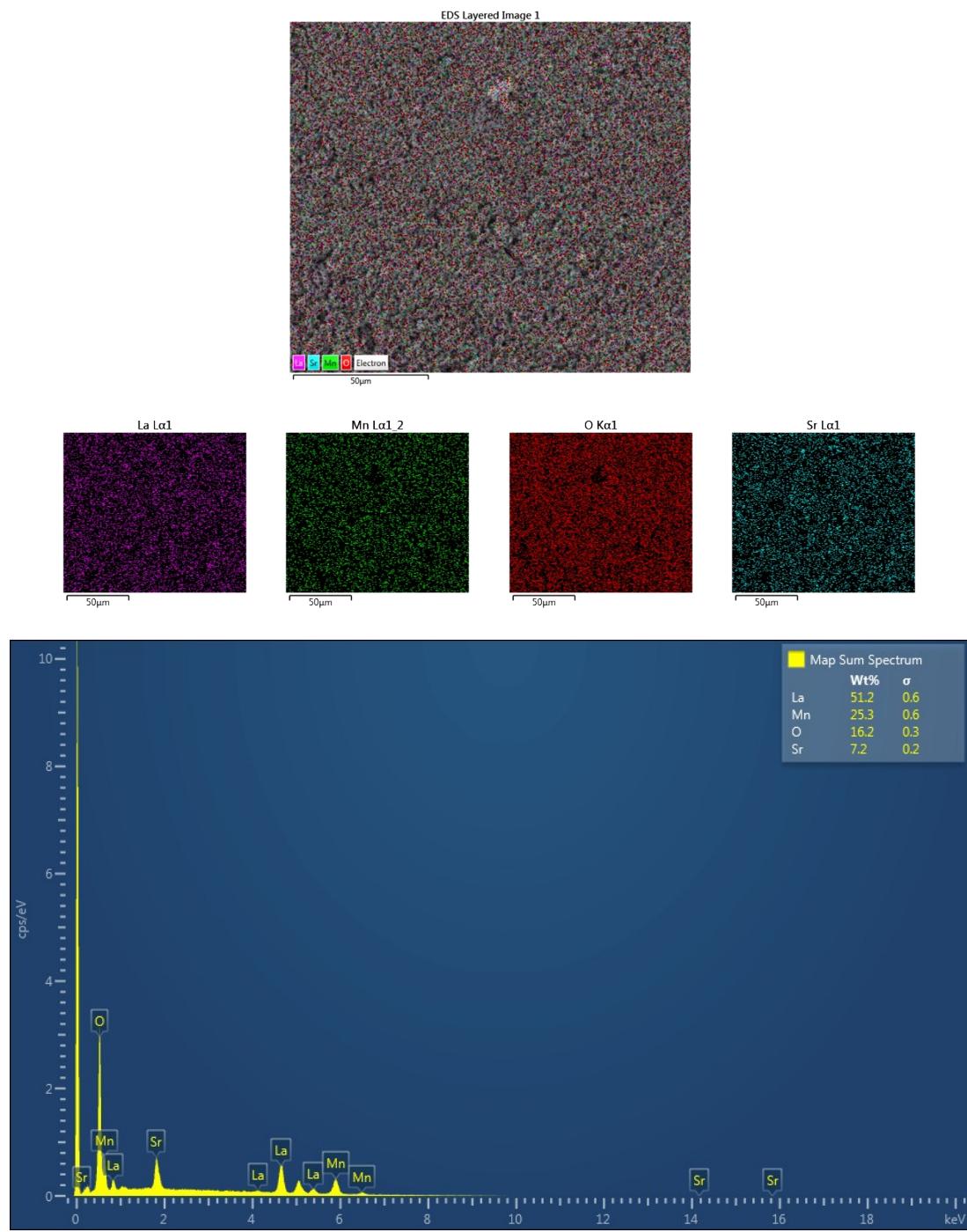


# Supplementary Information

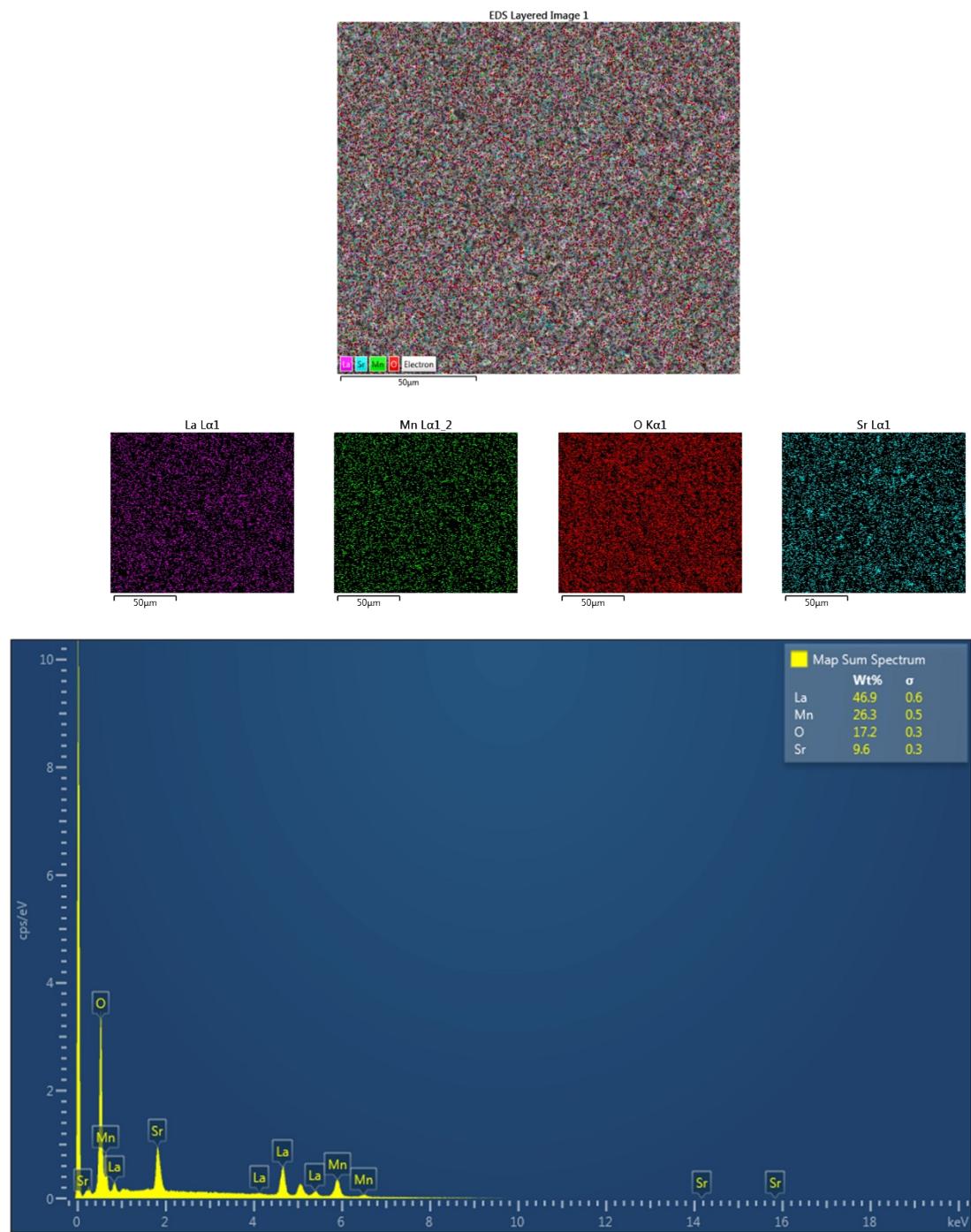
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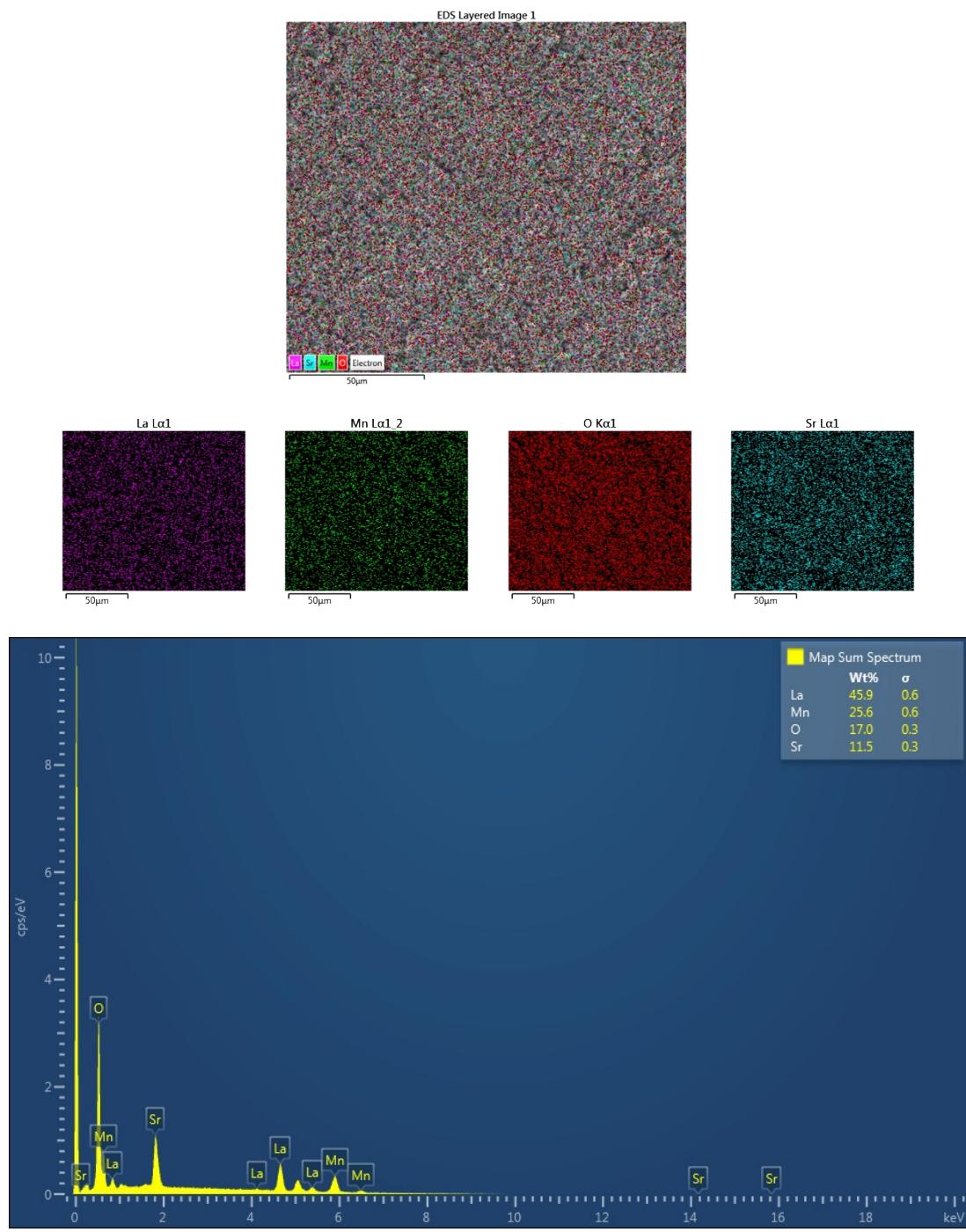
**Fig. 1** - EDX Map of LSMO20



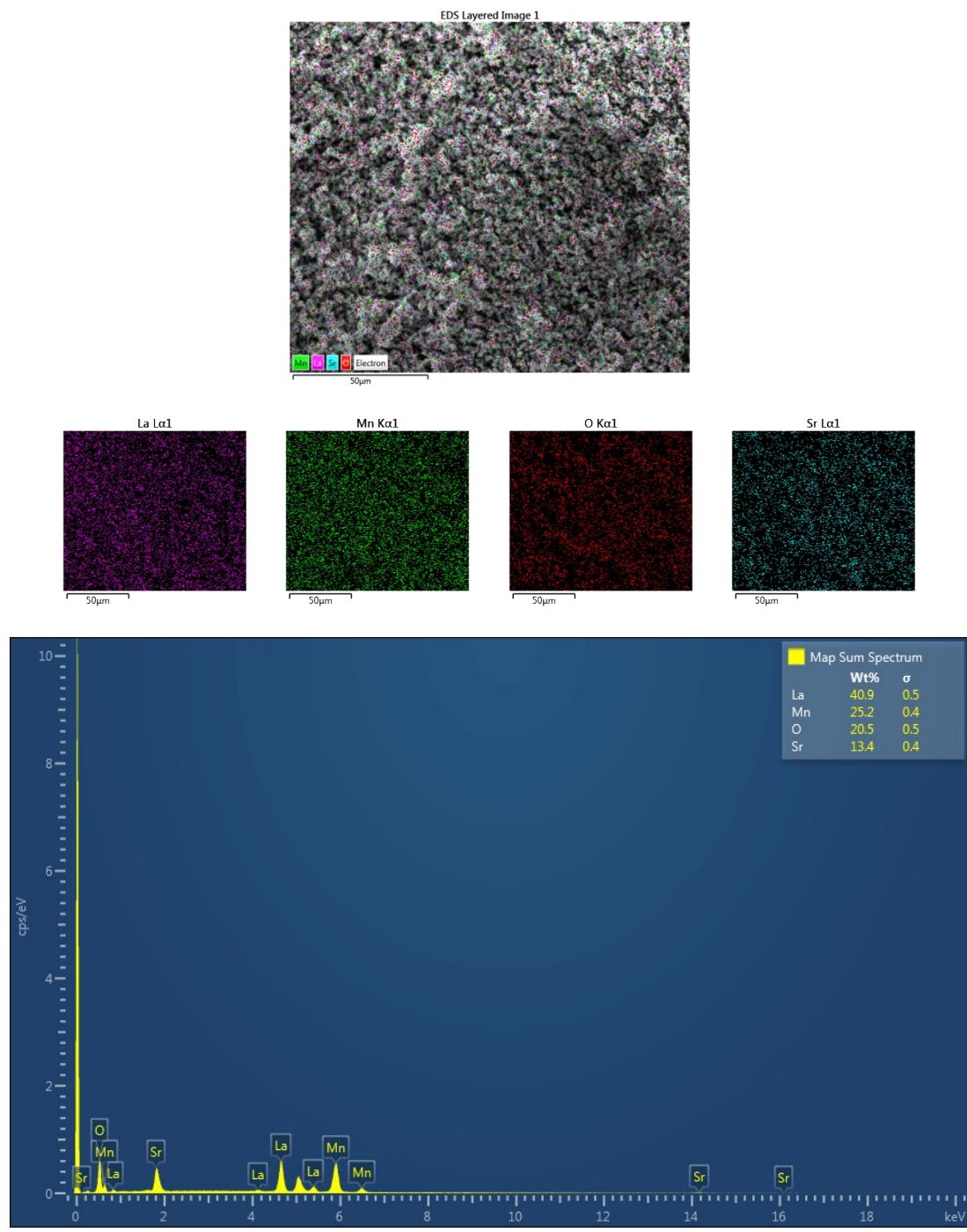
**Fig. 2** - EDX Map of LSMO25



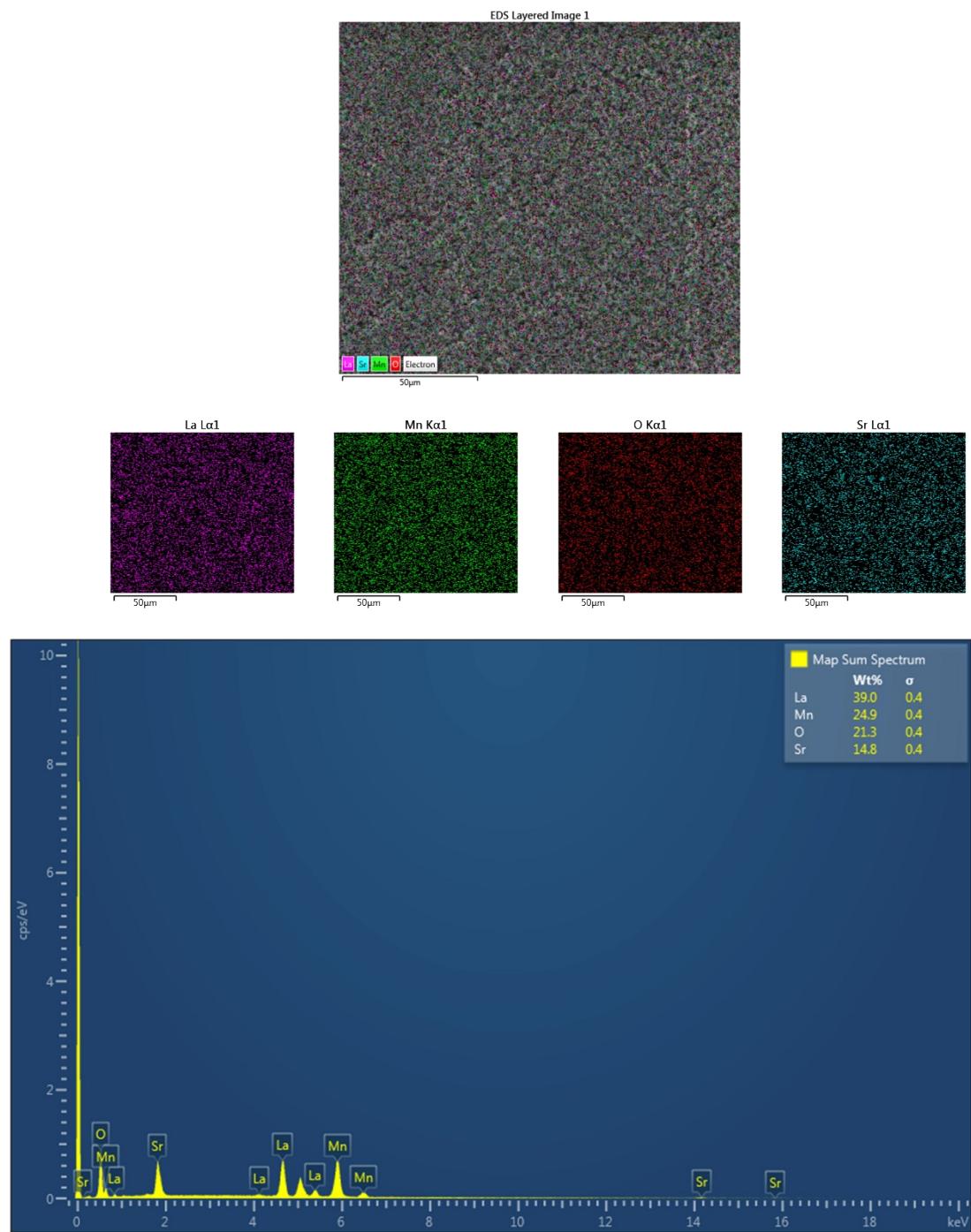
**Fig. 3** - EDX Map of LSMO30



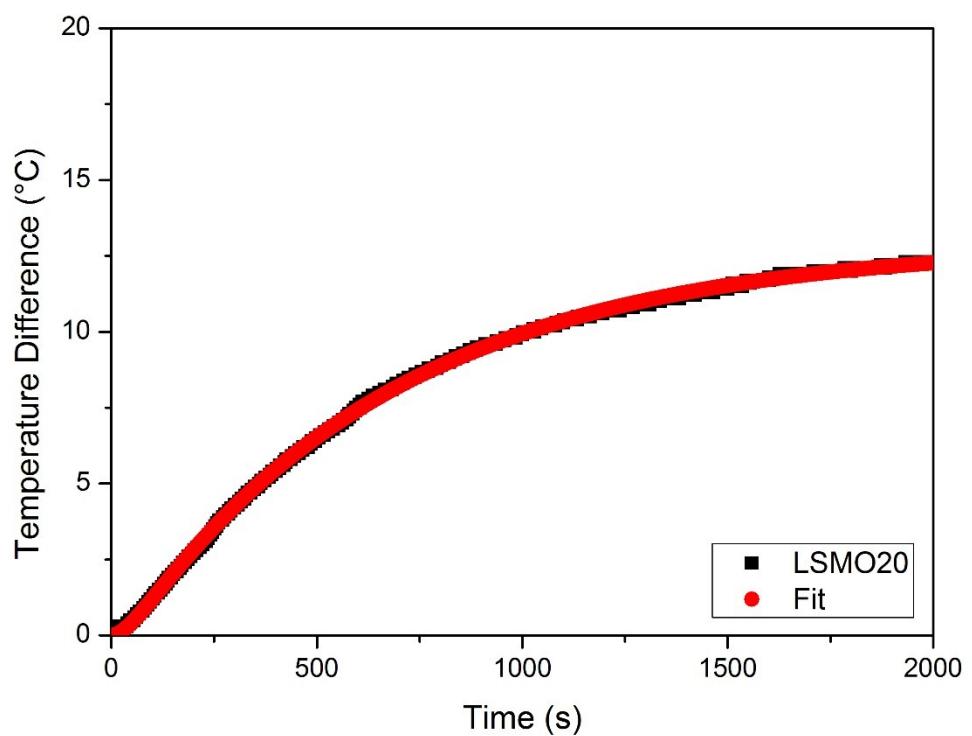
**Fig. 4** - EDX Map of LSMO35



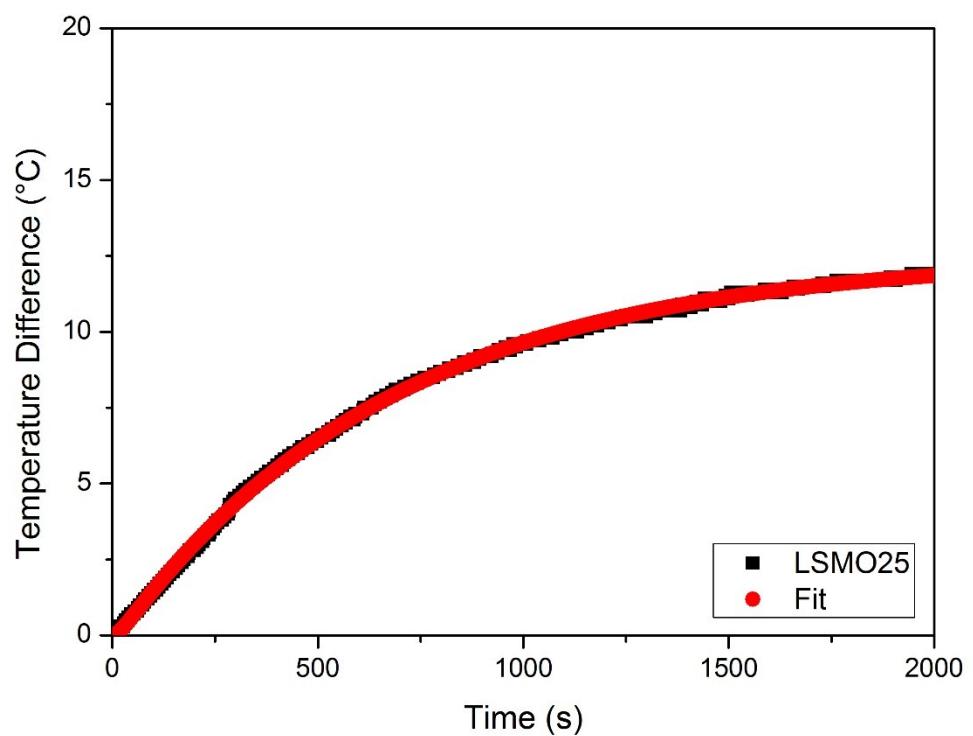
**Fig. 5** - EDX Map of LSMO40



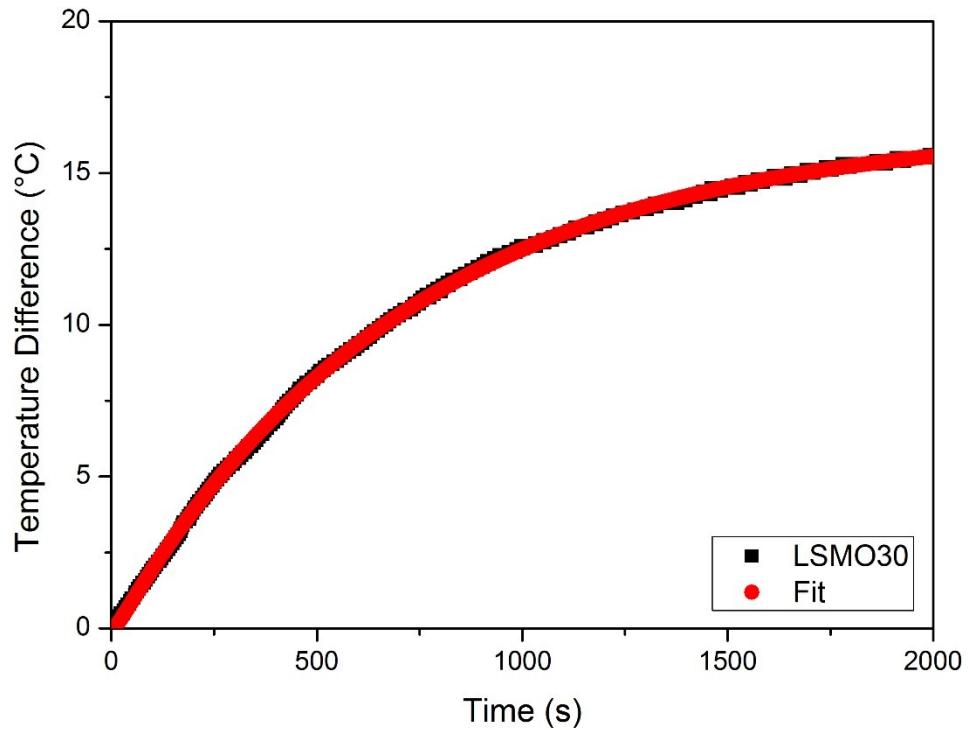
**Fig. 6** – Fitting of Heating Curve for LSMO20



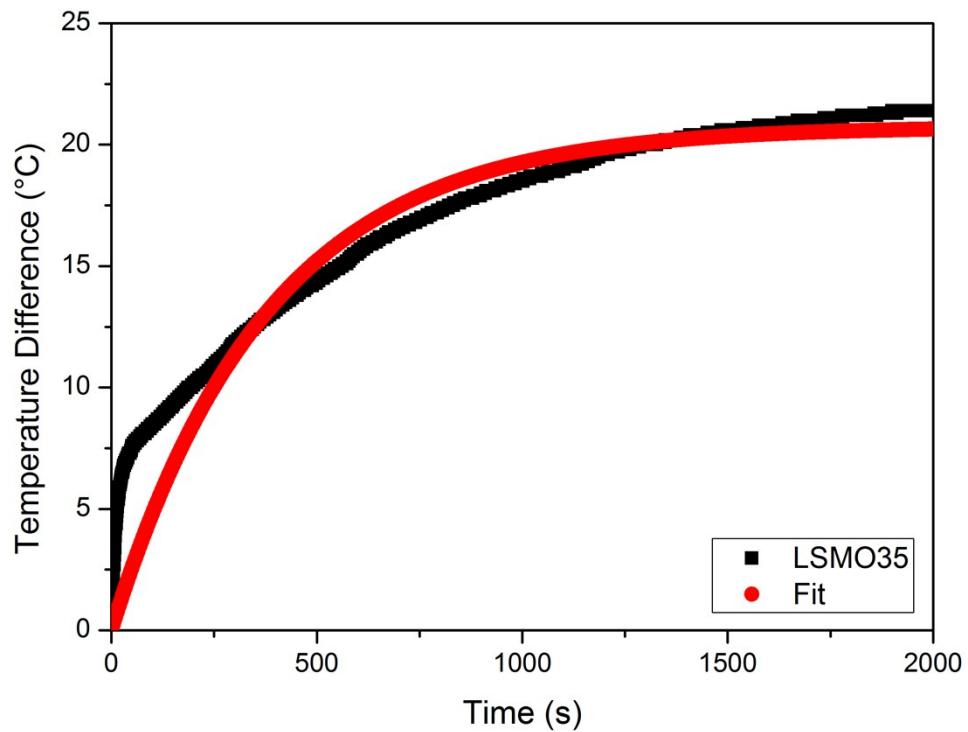
**Fig. 7** - Fitting of Heating Curve for LSMO25



**Fig. 8** - Fitting of Heating Curve for LSMO30



**Fig. 9** - Fitting of Heating Curve for LSMO35



**Fig. 10** - Fitting of Heating Curve for LSMO40

