

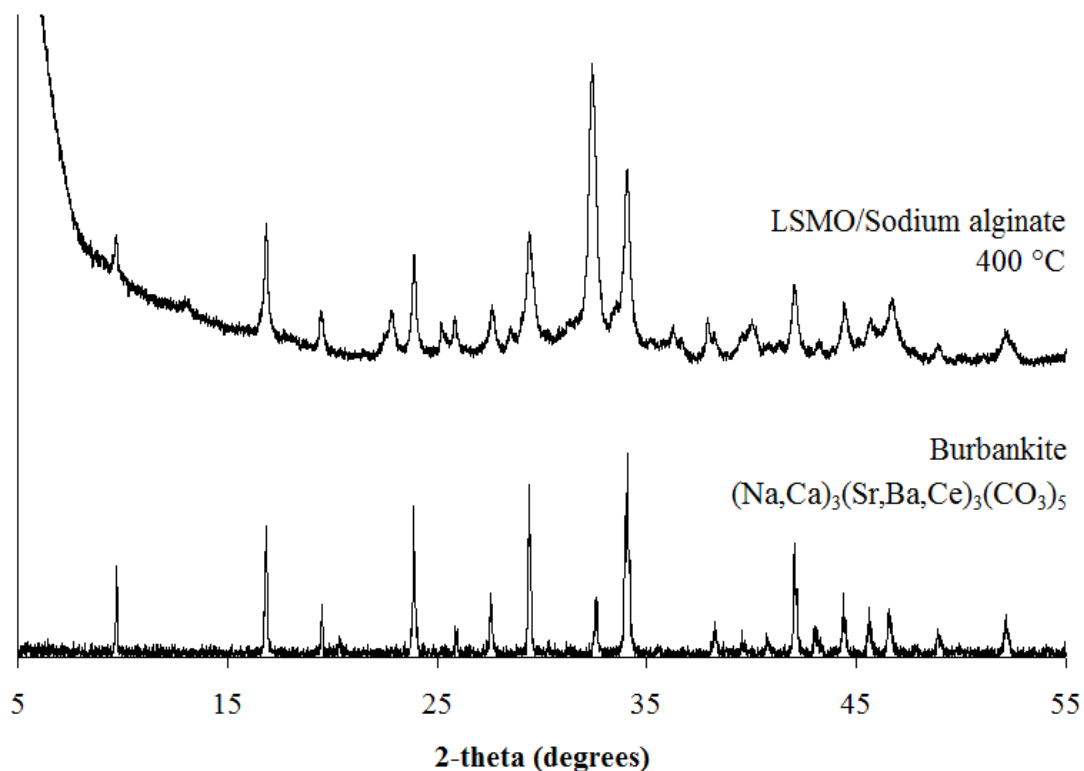


Fig. S1 XRD pattern of a sample quenched from 400 °C during the synthesis of LSMO from a sodium alginate gel, compared to a reference XRD pattern for the mineral Burbankite (from the RRUFF™ database).

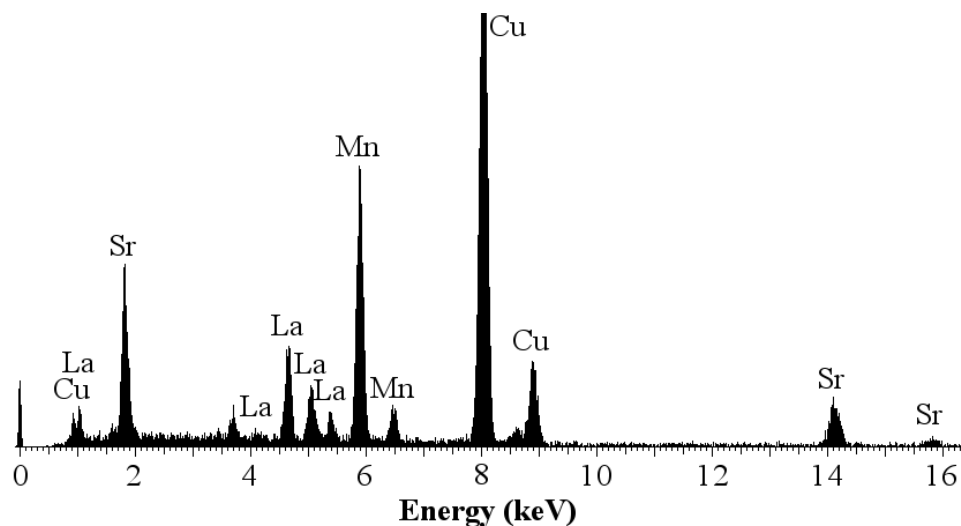


Fig. S2 EDX analysis showing the elemental composition in the final LSMO product synthesized from sodium ascorbate.

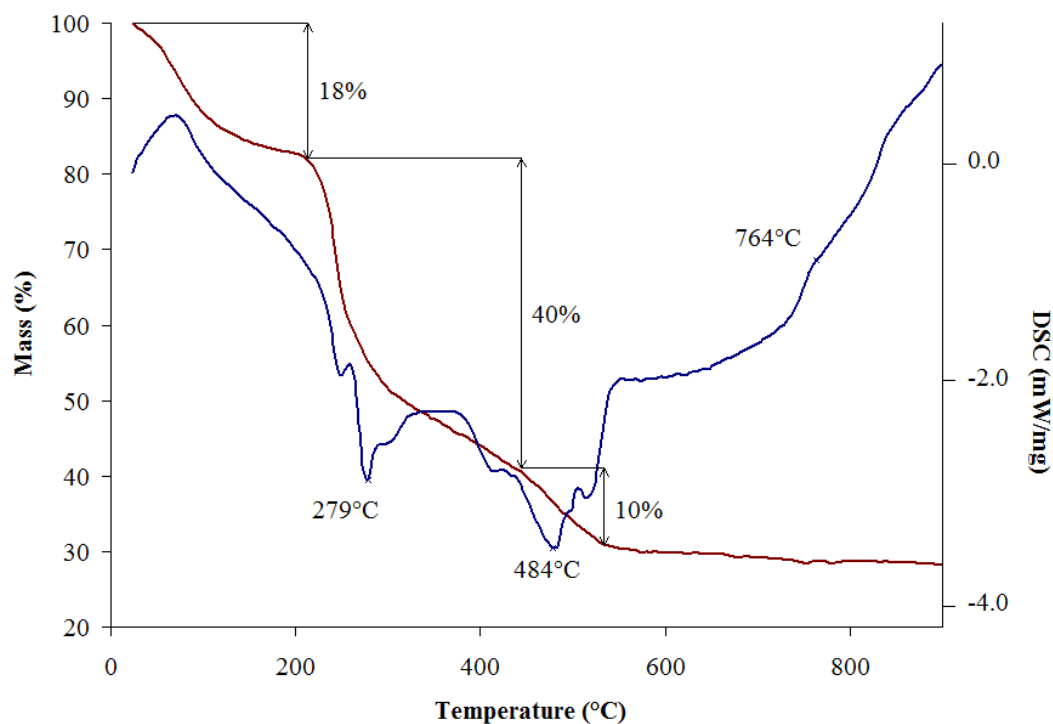


Fig. S3 Thermogravimetric analysis (TGA, red curve) and differential scanning calorimetry (DSC, blue curve) of LSMO synthesized in the presence of sodium alginate.

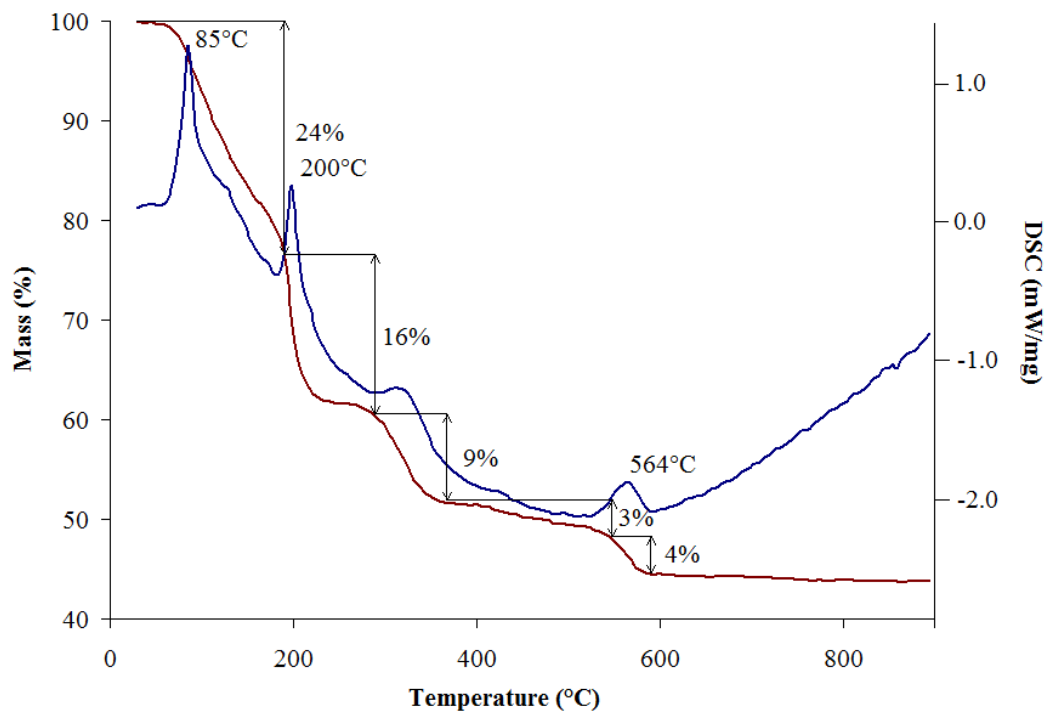


Fig. S4 Thermogravimetric analysis (TGA, red curve) and differential scanning calorimetry (DSC, blue curve) of LSMO synthesized in the presence of sodium ascorbate.