

Studies on the formation of $\text{LaCr}_{1-x}\text{M}_x\text{O}_3$ ($\text{M} = \text{Cu}, \text{Ni}$) from complex precursors

Daniela BERGER^a, Victor FRUTH^b, Petre NIȚĂ^c, Magdalena BOSOMOIU^a and Ioana JITARU^a

^a *Department of Inorganic Chemistry, "Politehnica" University Bucharest, 1 Polizu Street, 78126-Bucharest, Romania*

^b *Romanian Academy, Institute of Physical Chemistry, Bucharest, Romania*

^c *METAV S.A., Bucharest, Romania*

Abstract This paper deals with the doped lanthanum chromite synthesis from acetate precursors isolated in $\text{Cr}_2\text{O}_3 \cdot x\text{H}_2\text{O} - \text{La}(\text{NO}_3)_3 - \text{M}(\text{NO}_3)_2 - \text{CH}_3\text{COO}^- - \text{NH}_3$ ($\text{M}=\text{Ni}, \text{Cu}$) systems. The perovskite structure of $\text{LaCr}_{1-x}\text{M}_x\text{O}_3$ ($\text{M}=\text{Ni}, \text{Cu}$; $x=0-0.2$) was confirmed by XRD analysis. Parameters like specific surface area and effective magnetic moments were investigated

Keywords: perovskite, doped lanthanum chromite, complex precursors
