

† Electronic Supplementary Information (ESI)

Thermodynamic studies on entropy stabilized oxide (Co,Cu,Mg,Ni,Zn)O

Florina Teodorescu^a, Cornelia Marinescu^a, Ancuta Sofronia^a, Alina Botea-Petcu^a, Cristian Hornoiu^a, Mihail-Călin Licu^a, Florentina Maxim^a, David Berardan^b, Nita Drago^{b*} and Speranta Tanasescu^{a*}

^aDepartment of Chemical Thermodynamics, Institute of Physical Chemistry - Ilie Murgulescu of the Romanian Academy, Bucharest, Romania

^bICMMO (UMR 8182 CNRS), Université Paris-Saclay, 91405 Orsay, France

**^aE-mail: speranta.tanasescu@gmail.com; stanasescu2004@yahoo.com; stanasescu@icf.ro;*

**^bE-mail: nita.dragoe@universite-paris-saclay.fr*

Final Le Bail Fit
 $a = 4.2381(3) \text{ \AA}$, $2\theta\text{-offset} = 0.008(3)^\circ$, $R_{wp} = 6.73\%$

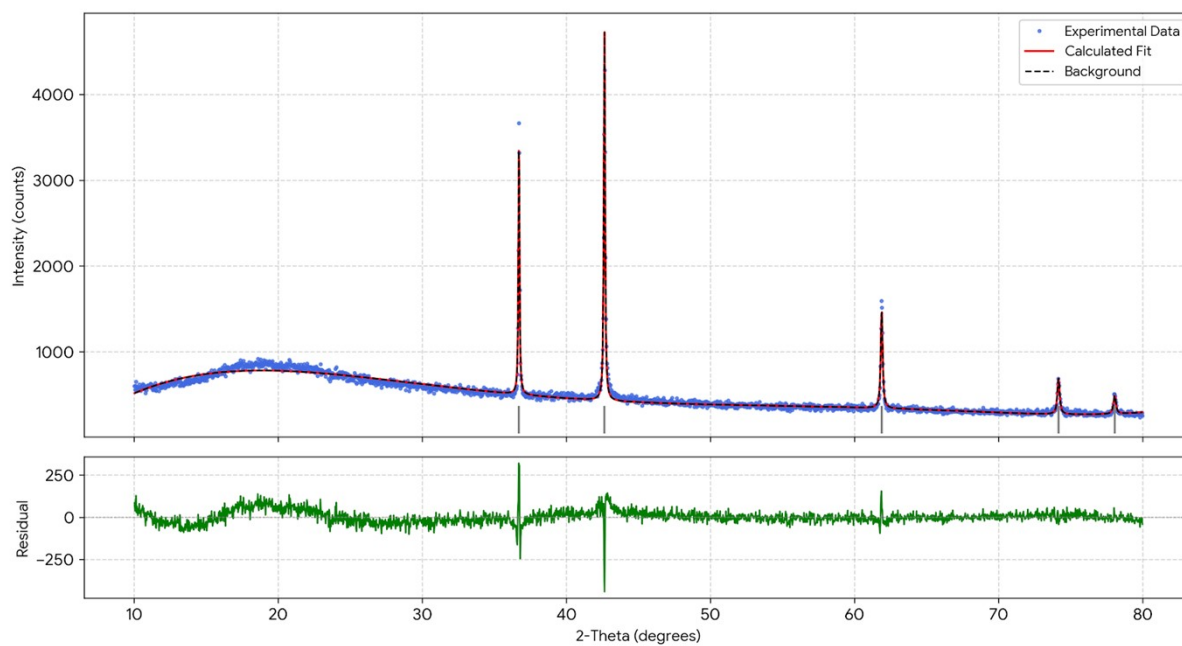


Figure S1: Powder XRD and Le Bail fit for the analyzed samples. (24 bars of the same starting materials were used in this study).

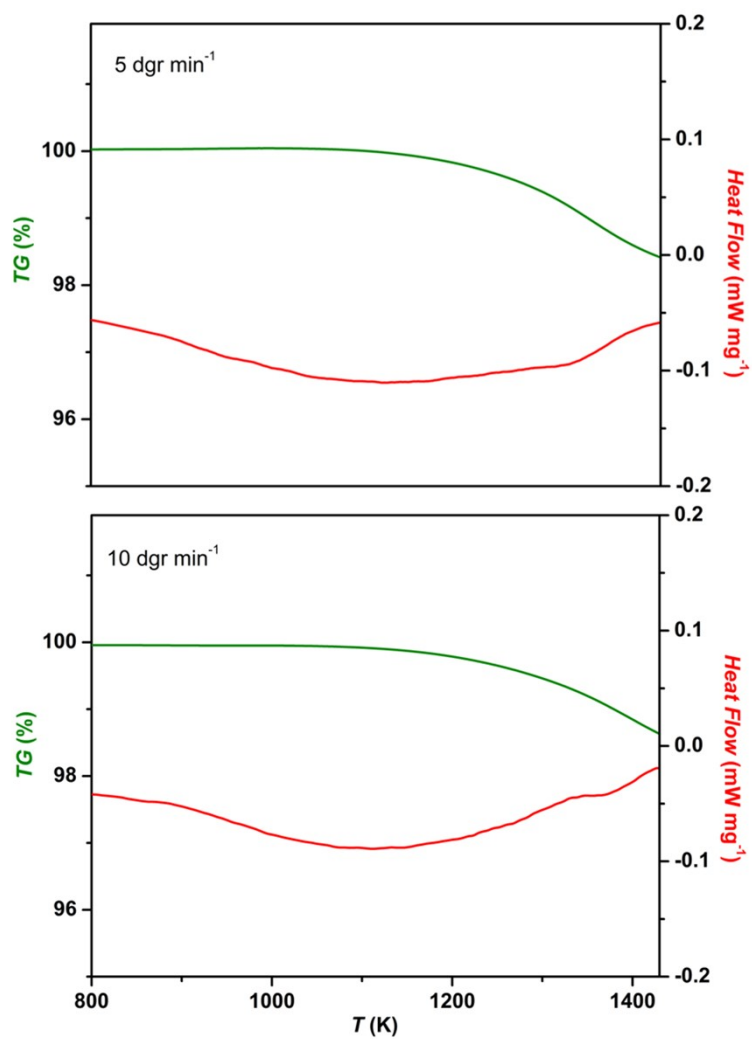


Figure S2: TG and DSC plots of the as-prepared (Co,Cu,Mg,Ni,Zn)O sample recorded at 5 K min⁻¹ (upper panel) and 10 K min⁻¹ (lower panel).