SUPPLEMENTARY INFORMATION

Effect of preparation method on the optical properties of novel luminescent glass-crystalline composites

Radosław Lisiecki[1], Natalia Miniajluk-Gaweł[1], Bartosz Bondzior[1,*]

[1] Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Okólna 2, 50-422 Wroclaw, Poland

* Correspondence: b.bondzior@intibs.pl

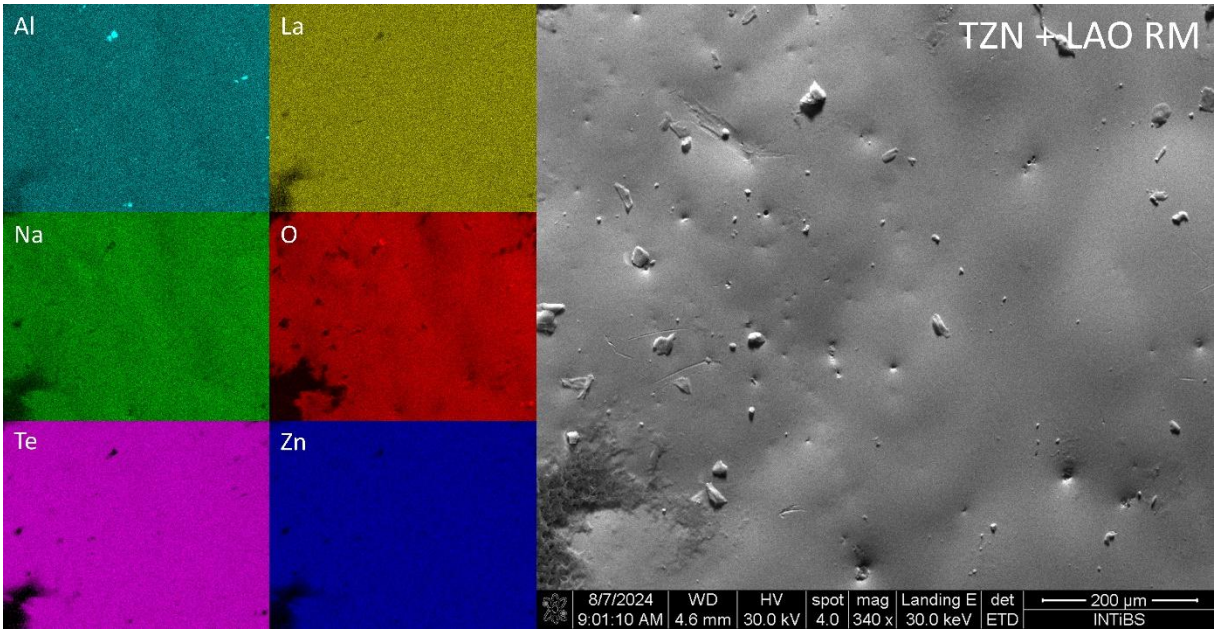


Figure S1. Elemental mapping of the RM sample.

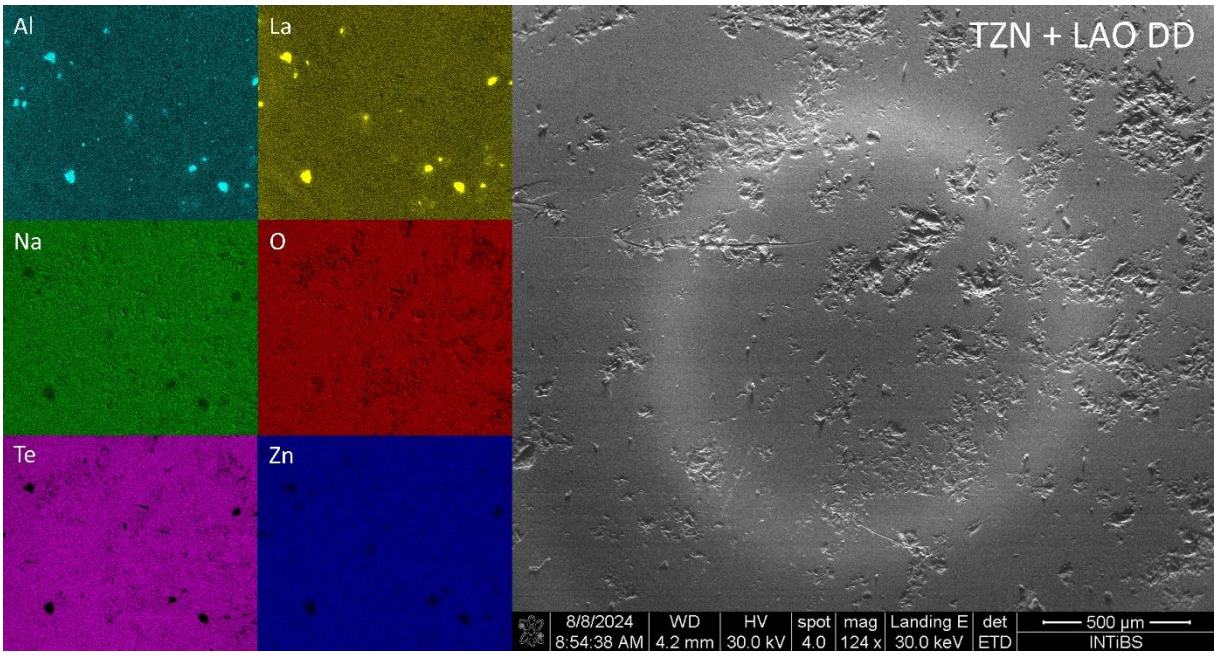


Figure S2. Elemental mapping of the DD sample.

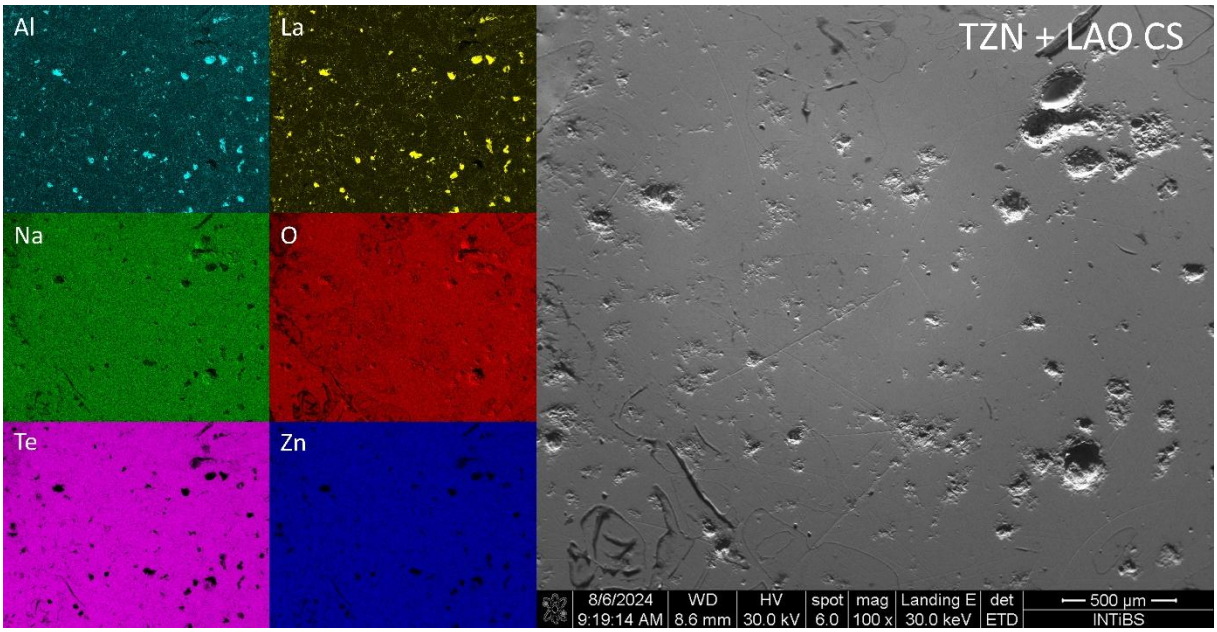


Figure S3. Elemental mapping of the CS sample.

Elemental line analysis

The raw values of the elemental line were given for the following elements:

O	Na	Al	Te	La	Zn

Based on the values for these elements, the amount of oxide compounds was determined as follows:

Na_2O	Al_2O_3	TeO_2	La_2O_3	ZnO
= Na/2	= Al/2	= Te	= La/2	= Zn

The fractions of the compounds were calculated using the formula (S1)

$$\%X = \frac{X}{Na_2O+Al_2O_3+TeO_2+La_2O_3+ZnO} \quad \text{(S1)}$$

The fractions of LAO and TZN were calculated using formulas (S2) and (S3), respectively.

$$\%LaAlO_3 = \%Al_2O_3 + \%La_2O_3 \quad \text{(S2)}$$

$$\%TZN = \%\,TeO_2 + \%ZnO + \%Na_2O \quad \text{(S3)}$$

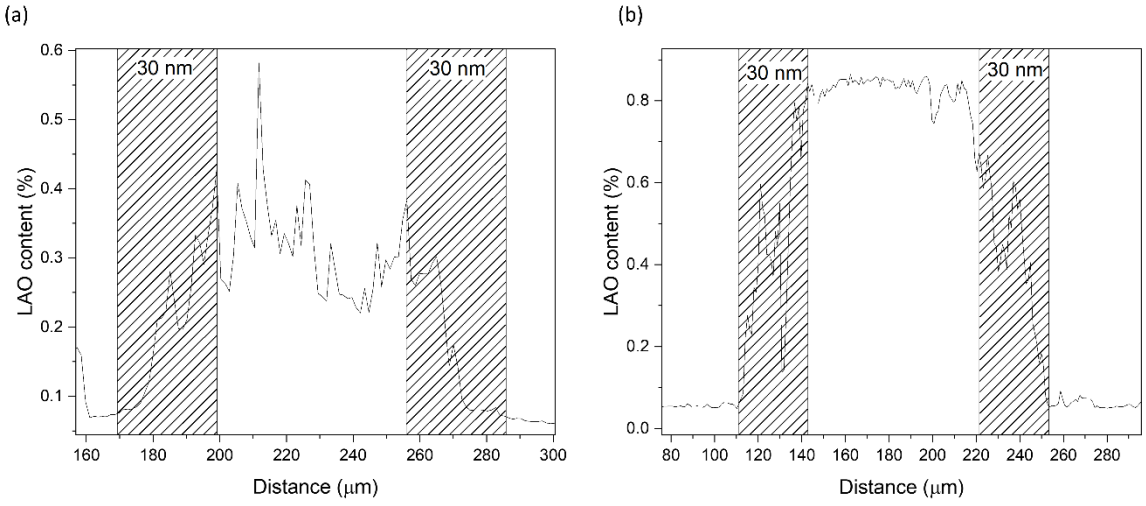


Figure S4. LAO fraction with marked interdiffusion zones for DD (a) and CS (b) samples.