

## Supplementary materials

### Multimode Stimulated Luminescence of $\text{LiNbO}_3:\text{Pr}^{3+}/\text{ZnS}:\text{Cu}/\text{PDMS}$ flexible films

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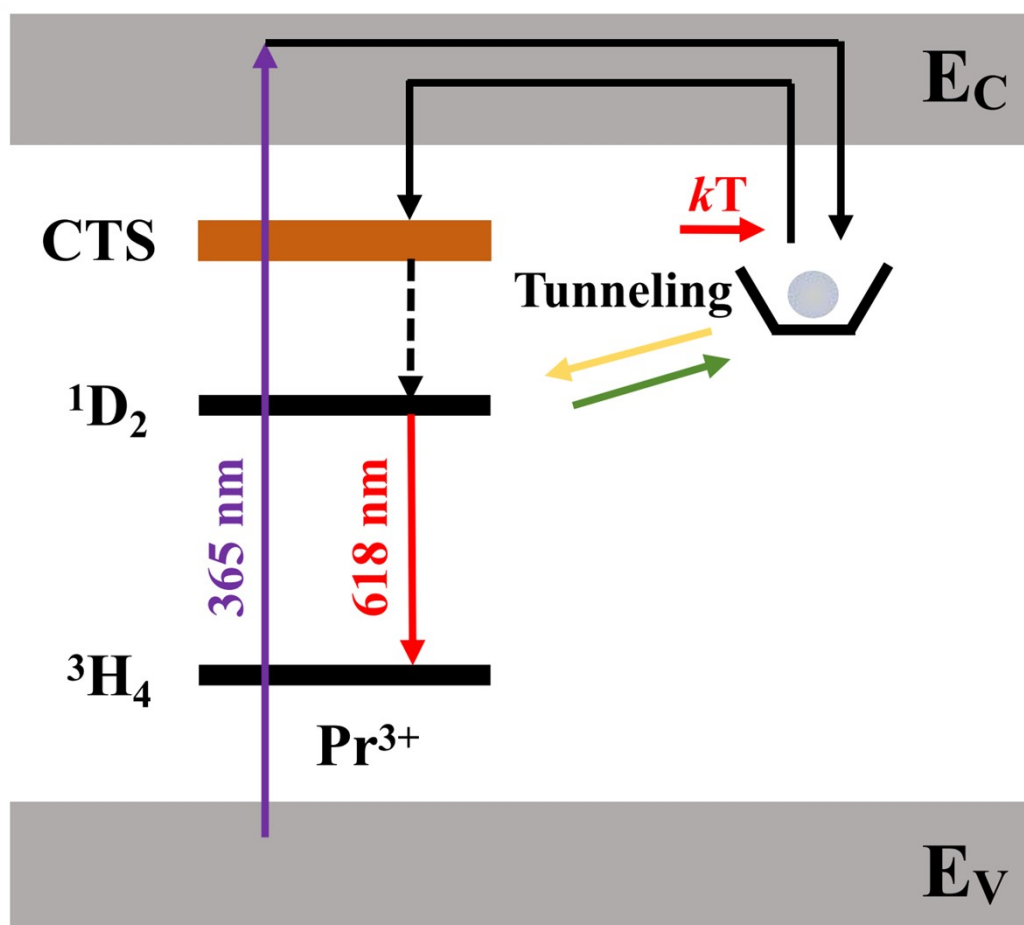


Figure S1. The TL mechanism of  $\text{LiNbO}_3:\text{xPr}^{3+}$ .

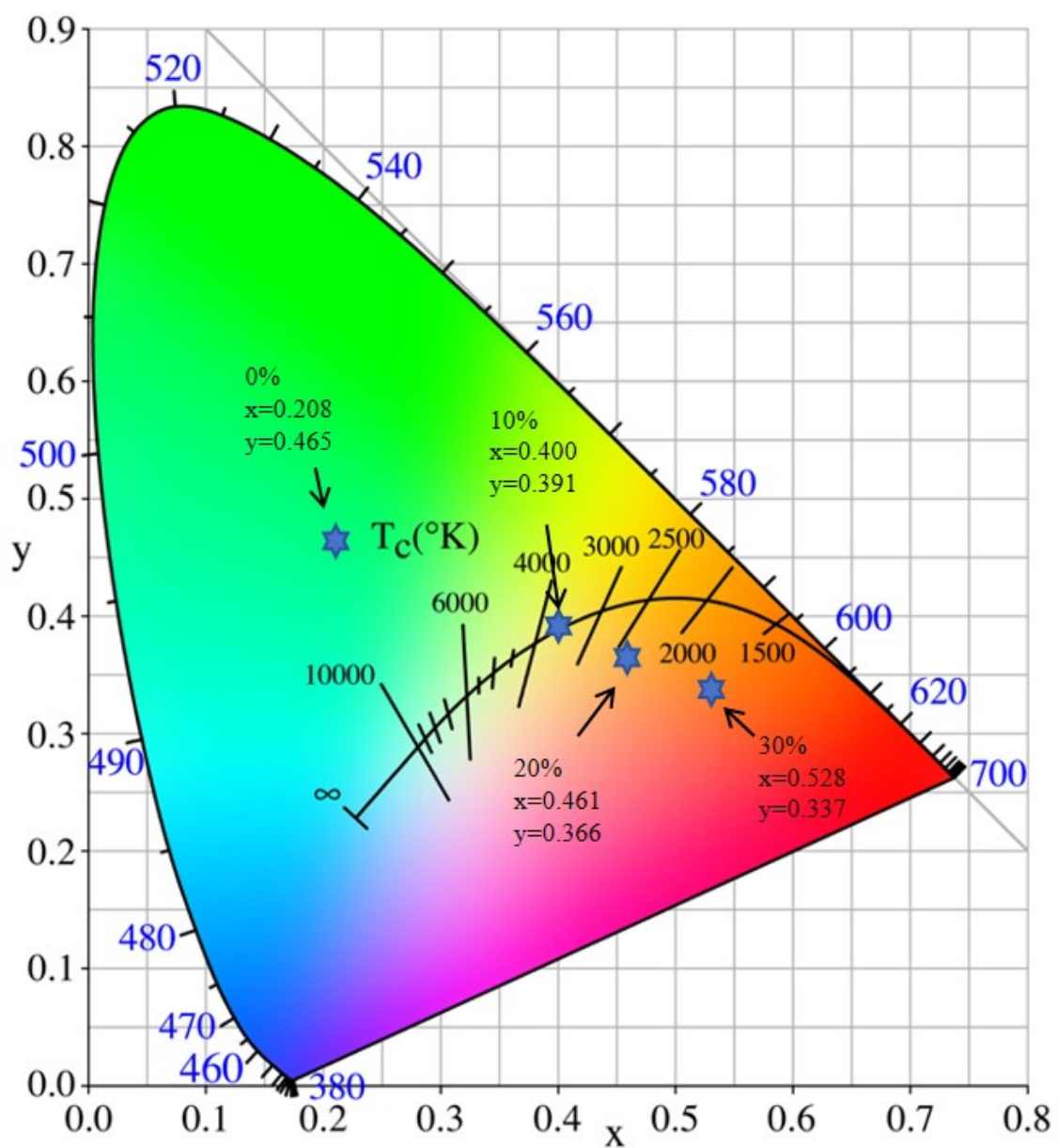
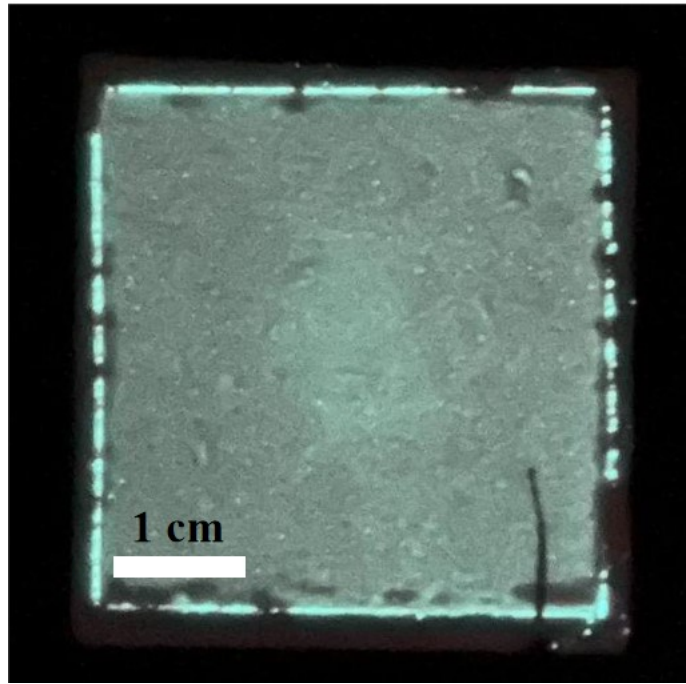
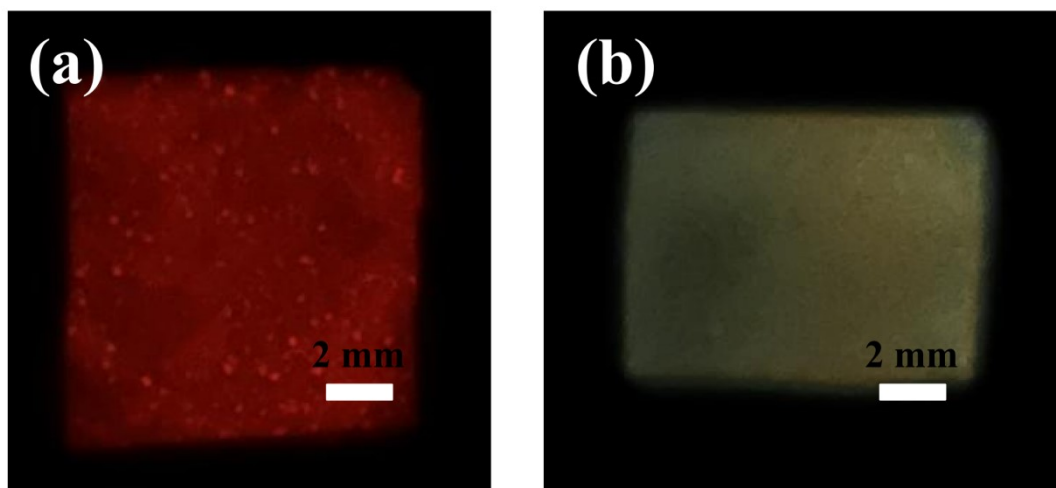


Figure S2. CIE coordinates ( $x$ ,  $y$ ) calculated from the PL spectra.



**Figure S3.** Photographic image of EL device under low-frequency voltage



**Figure S4.** (a) TL photograph of the  $\text{LiNbO}_3:0.01\text{Pr}^{3+}/\text{PDMS}$  flexible film. (b) TL photograph of the  $\text{LiNbO}_3:0.01\text{Pr}^{3+}/\text{ZnS:Cu}/\text{PDMS}$  flexible film.