

Supporting Information

Monovalent copper-mediated UV to NIR luminescence down- shifting in Yb³⁺-doped glass

José A. Jiménez*

Department of Chemistry & Biochemistry, Georgia Southern University, Statesboro, GA 30460, USA

*E-mail: jjimenez@georgiasouthern.edu ; jimenez.materials@gmail.com

ORCID:

José A. Jiménez: [0000-0001-9256-3836](https://orcid.org/0000-0001-9256-3836)

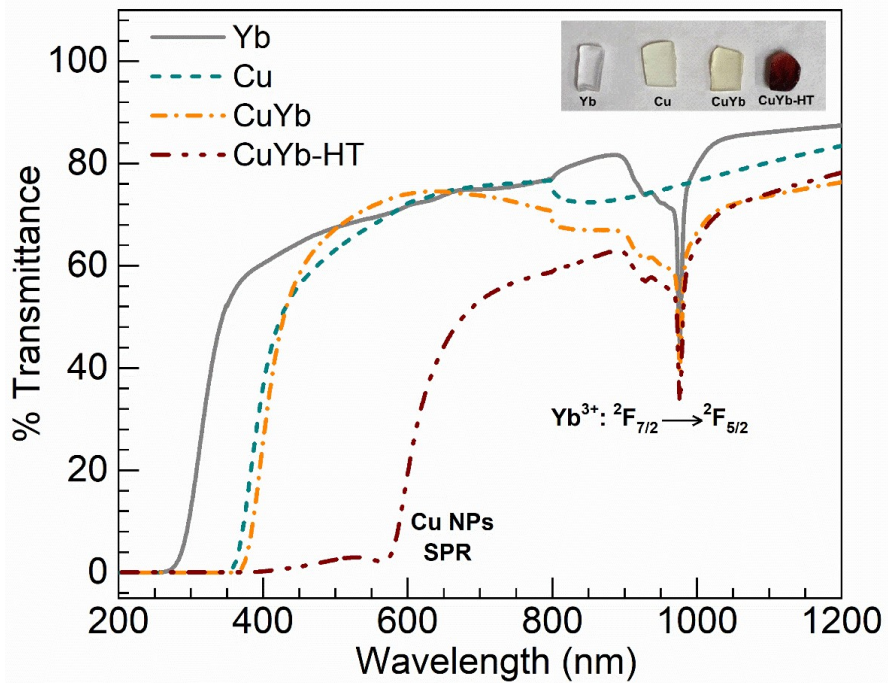


Fig. S1. The UV-Vis-NIR transmission spectra of the various glasses. The inset shows photographs of some samples of the studied glasses.

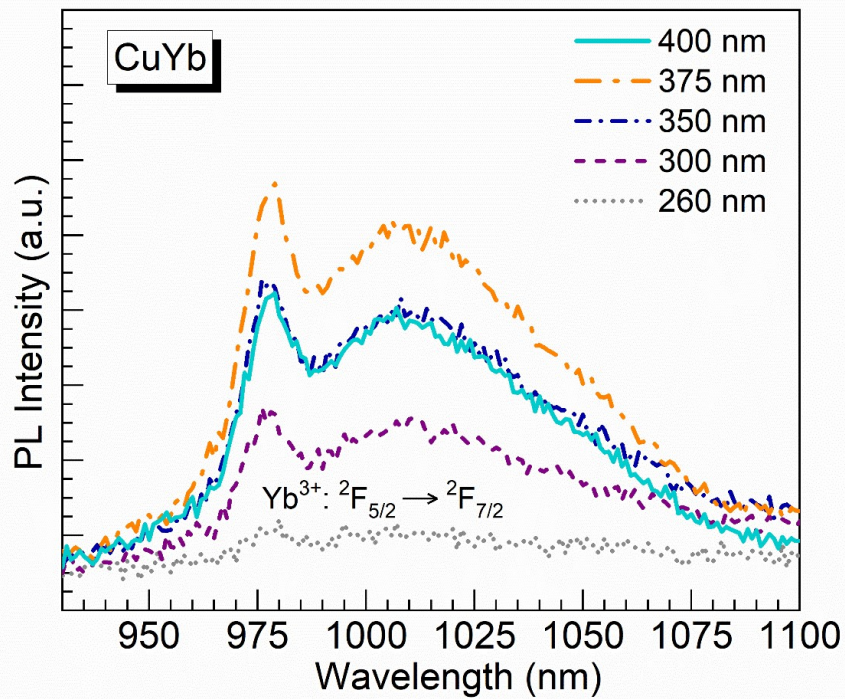


Fig. S2. Yb^{3+} NIR emission spectra obtained for the CuYb glass under different excitation wavelengths as displayed.

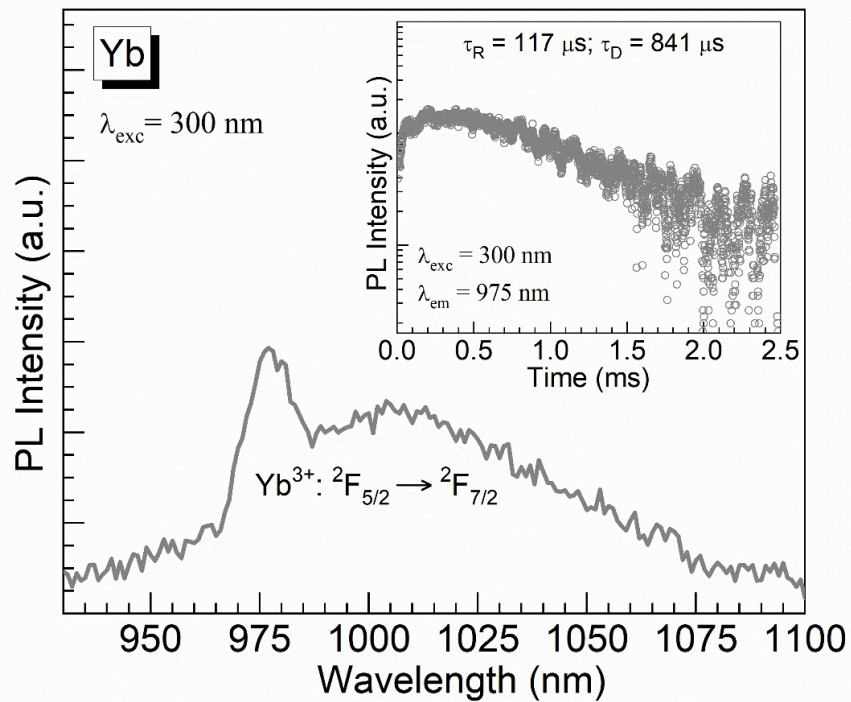


Fig. S3. Yb³⁺ NIR emission spectrum obtained under excitation at 300 nm for the Yb reference glass. The inset shows the semi-log plot of the emission decay curve obtained for the Yb glass under excitation at 300 nm by monitoring Yb³⁺ emission at 975 nm.