Supporting information

The effects of down- and up-conversion on dual-mode green luminescence from Yb\textsuperscript{3+}- and Tb\textsuperscript{3+}-doped LaPO\textsubscript{4} nanocrystals

Tomasz Grzyb\textsuperscript{1*}, Aleksandra Gruszeczka\textsuperscript{1}, Rafal J. Wiglusz\textsuperscript{2}, Stefan Lis\textsuperscript{1}

\textsuperscript{1}Adam Mickiewicz University, Faculty of Chemistry, Department of Rare Earths, Grunwaldzka 6, 60-780 Poznan, Poland. E-mail: tgrzyb@amu.edu.pl; Fax: +48 618291505; Tel: +48 618291346

\textsuperscript{2}Institute of Low Temperature and Structure Research, Polish Academy of Sciences, P.O. Box 1410, 50-950 Wroclaw, Poland

Corresponding author: tgrzyb@amu.edu.pl

**Fig. S1.** Luminescence decays of LaPO\textsubscript{4}:Tb\textsuperscript{3+},Yb\textsuperscript{3+} nanocrystals during the observation of Tb\textsuperscript{3+} emission (a, b, e, f) and Yb\textsuperscript{3+} emission (c, d), which are dependent on the Tb\textsuperscript{3+} (a, c, e) or Yb\textsuperscript{3+} (b, d, f) concentrations.