Supporting Information

![Graph showing UC luminescence of CaLa_{1.93}Yb_{0.05}Er_{0.02}ZnO_{5} phosphors annealed at different temperatures.]

Fig. S1 UC luminescence of CaLa_{1.93}Yb_{0.05}Er_{0.02}ZnO_{5} phosphors annealed at different temperature.
Fig. S2 Monolog plot of the FIR of green upconversion emissions for the $^2H_{11/2}$, $^4S_{3/2} \rightarrow ^4I_{15/2}$ transitions as a function of inverse absolute temperature in the range of 298-513 K.