Tunable luminescence and energy transfer properties of Bi$^{3+}$ and Mn$^{4+}$ co-doped Ca$_{14}$Al$_{10}$Zn$_6$O$_{35}$ phosphors for agricultural applications

Li Li, Yuexiao Pan, * Zhen Chen, Shaoming Huang, Mingmei Wu

Figure S1. Excitation spectra of phosphor CAZO:1%Bi$^{3+}, 0.5%Mn^{4+}$ monitored at 417 nm and 712 nm, respectively.

Figure S2. Absorption spectra of chlorophy II A and chlorophy II B, and emission spectrum of CAZO:0.5%Bi$^{3+}, 0.5%Mn^{4+}$. 