

Tunable luminescence and energy transfer properties of Bi³⁺ and Mn⁴⁺ co-doped

Ca₁₄Al₁₀Zn₆O₃₅ phosphors for agricultural applications

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

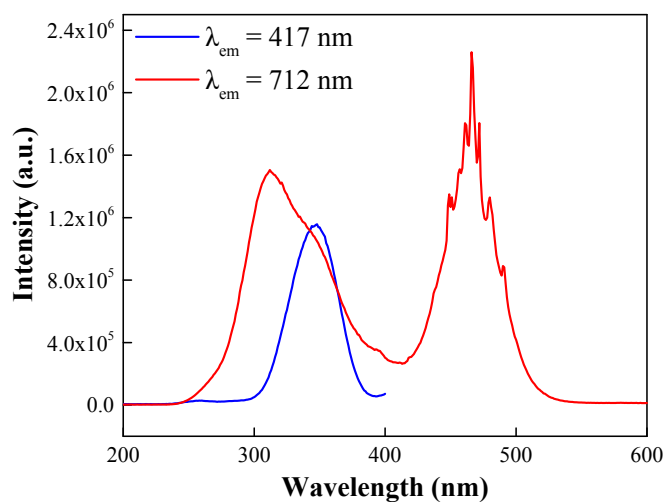


Figure S1. Excitation spectra of phosphor CAZO:1%B̄i³⁺,0.5%Mn⁴⁺ monitored at 417 nm and 712 nm, respectively.

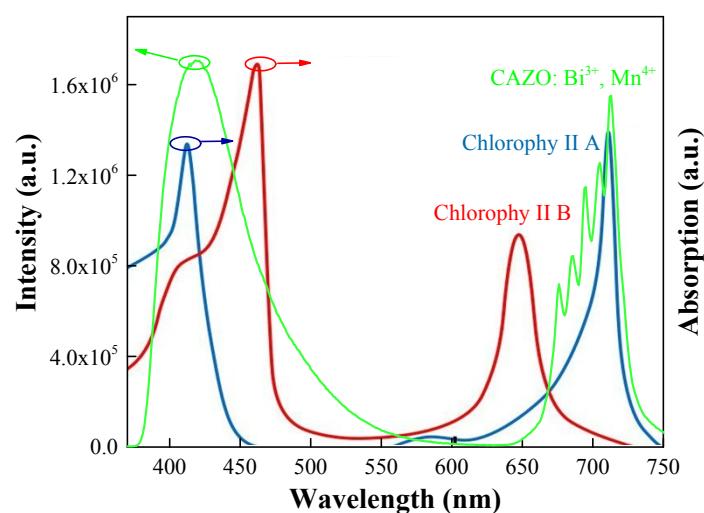


Figure S2. Absorption spectra of chlorophyll II A and chlorophyll II B, and emission spectrum of CAZO:0.5%B̄i³⁺,0.5%Mn⁴⁺.