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

$Ca_{14}Al_{10}Zn_6O_{35}$ phosphors for agricultural applications

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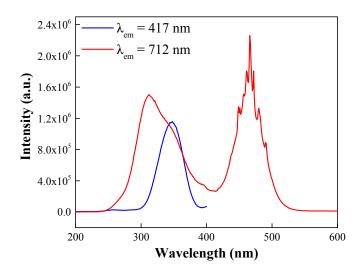


Figure S1. Excitation spectra of phosphor CAZO:1%Bi³⁺,0.5%Mn⁴⁺ monitored at 417 nm and 712 nm, respectively.

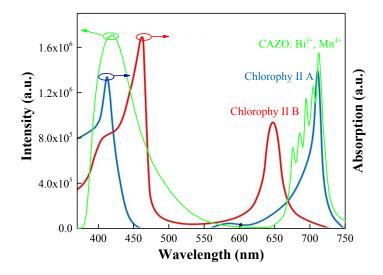


Figure S2. Absorption spectra of chlorophy II A and chlorophy II B, and emission spectrum of CAZO:0.5%Bi³⁺,0.5%Mn⁴⁺.