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Self-activated multicolor emissions in $\text{Ca}_2\text{NaZn}_2(\text{VO}_4)_3\text{Eu}^{3+}$ phosphors for simultaneous warm white light-emitting diodes and safety sign

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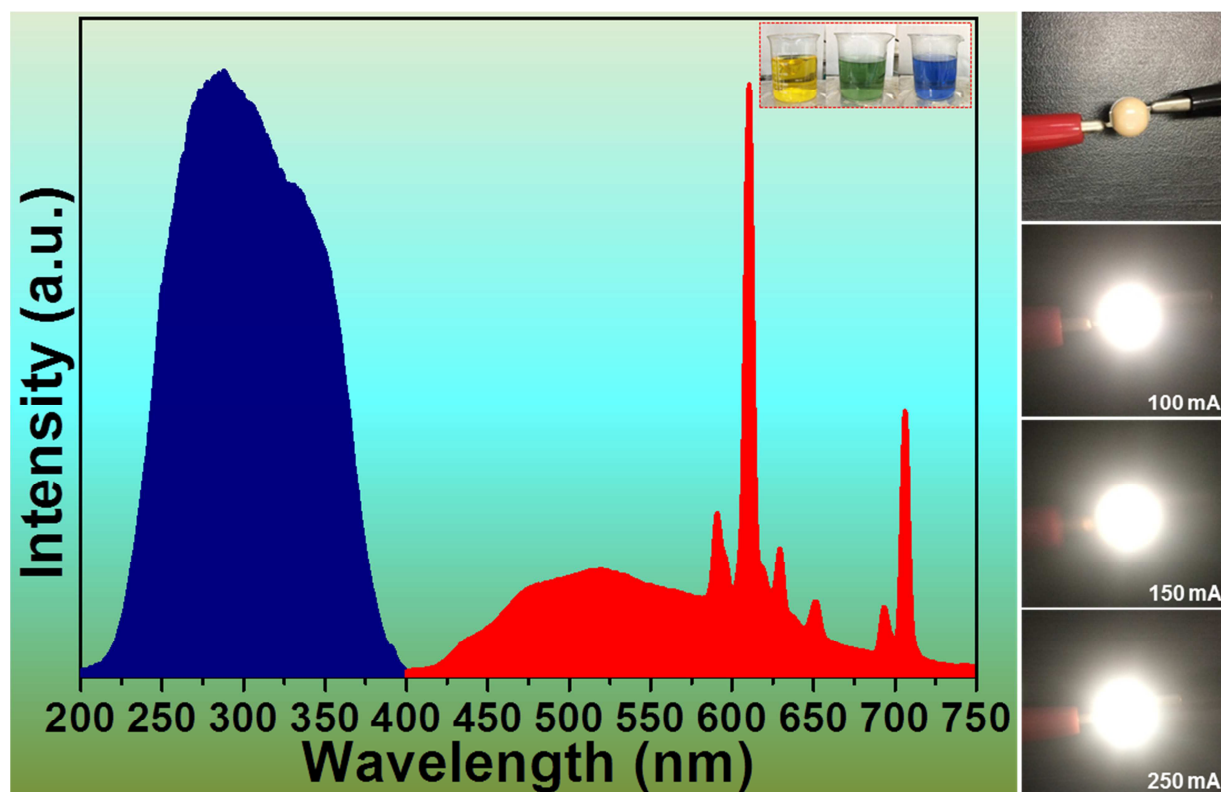
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Graphical abstract



Excitation and emission spectra of $\text{Na}_2\text{CaZn}_2(\text{VO}_4)_3:\text{Eu}^{3+}$ phosphors. Luminescent images of the fabricated WLED devices at different forward bias currents

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