

Supplementary information

Novel narrow-band blue-emitting $\text{Cs}_3\text{Zn}_6\text{B}_9\text{O}_{21}:\text{Bi}^{3+}$ phosphor with superior thermal stability

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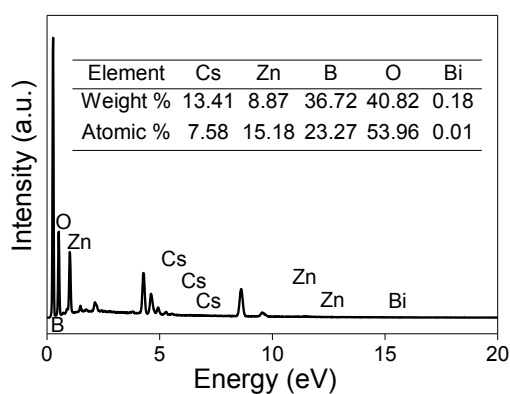


Figure S1 EDX spectrum of $\text{CZBO}:\text{0.02Bi}^{3+}$ sample.

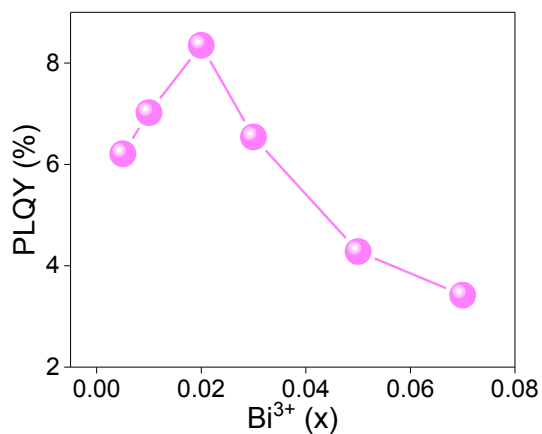


Figure S2. The internal quantum yields of $\text{CZBO}:\text{Bi}^{3+}$ ($x = 0.005, 0.01, 0.02, 0.03, 0.05$) phosphors.

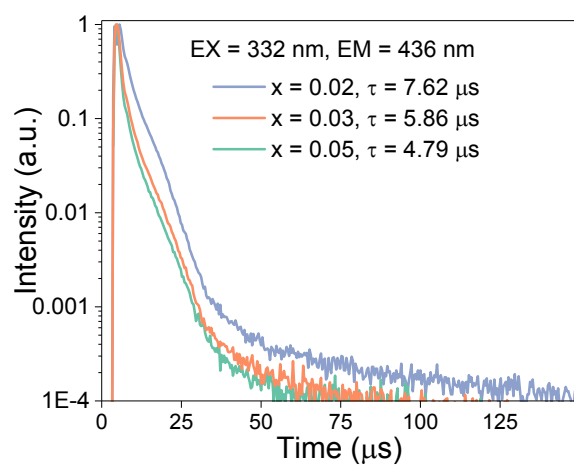


Figure S3. Photoluminescence decay curves of the CZBO:Bi³⁺ ($x = 0.02, 0.03, 0.05$) samples.