Supplementary information

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

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

Figure S2. The internal quantum yields of CZBO:Bi$^{3+}$ ($x = 0.005, 0.01, 0.02, 0.03, 0.05$) phosphors.
Figure S3. Photoluminescence decay curves of the CZBO:Bi$^{3+}$ ($x = 0.02$, 0.03, 0.05) samples.