Supplementary Information

Realizing Emission Color Tuning, Ratiometric Optical Thermometry and Temperature-induced Redshift Investigation in Novel Eu$^{3+}$ Doped Ba$_3$La(VO$_4$)$_3$ Phosphors

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Figure S1. The emission spectra ($\lambda_{ex}=319$ nm) of Ba$_3$La$_{1-x}$(VO$_4$)$_3$ : xSm$^{3+}$ phosphors

Figure S2. The temperature-dependent emission spectra of Ba$_3$La$_{0.95}$(VO$_4$)$_3$: 0.05Sm$^{3+}$ under 313 nm excitation.

Figure S3. The emission spectra ($\lambda_{ex}=326$ nm) of Ba$_3$La$_{1-x}$(VO$_4$)$_3$ : xDy$^{3+}$ phosphors

Figure S4. The temperature-dependent emission spectra of Ba$_3$La$_{0.97}$(VO$_4$)$_3$: 0.03Dy$^{3+}$ under 326 nm excitation.

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