

# Correction to “Synthesis, Structure, and Luminescence Properties of $\text{K}_2\text{Ba}_7\text{Si}_{16}\text{O}_{40}:\text{Eu}^{2+}$ for White Light Emitting Diodes”

Wenzhen Lv, Yongchao Jia, Qi Zhao, Wei Lü, Mengmeng Jiao, Baiqi Shao, and Hongpeng You\*

*J. Phys. Chem. C* **2014**, *118* (9), 4649–4655. DOI: 10.1021/jp500662a

In the caption of Figure 1, “Symmetry: tetragonal; space group:  $C2/m$ ;  $a/\text{\AA} = 32.046(7)$ ;  $b/\text{\AA} = 7.705(6)$ ;  $c/\text{\AA} = 8.224(6)$ ;  $Z = 2$ ,” should be changed to “Symmetry: monoclinic; space group:  $C2/m$ ;  $a/\text{\AA} = 32.046(7)$ ;  $b/\text{\AA} = 7.705(6)$ ;  $c/\text{\AA} = 8.224(6)$ ;  $\beta = 100.825^\circ$ ;  $Z = 2$ .”

In Section 3.1, “And the refined lattice parameters are  $a/\text{\AA} = 32.046(7)$ ;  $b/\text{\AA} = 7.705(6)$ ;  $c/\text{\AA} = 8.224(6)$ ,  $V/\text{\AA}^3 = 1994.825$ , which is in agreement with the result from ref 17.” should be changed to “And the refined lattice parameters are  $a/\text{\AA} = 32.046(7)$ ;  $b/\text{\AA} = 7.705(6)$ ;  $c/\text{\AA} = 8.224(6)$ ,  $\beta = 100.825^\circ$ ,  $V/\text{\AA}^3 = 1994.825$ , which is in agreement with the result from ref 17.”

In section 3.3, The “

$$E(\text{cm}^{-1}) = Q^* \left[ 1 - \left( \frac{V}{4} \right)^{1/V} \right] \times 10^{-(nE_g r)/80}$$

” should be changed to “

$$E(\text{cm}^{-1}) = Q^* \left[ 1 - \left( \frac{V}{4} \right)^{1/V} \times 10^{-(nE_g r)/80} \right]$$

”. “Considering these data, it is reasonable to speculate that the band I ( $\sim 471$  nm) corresponds to Ba(2). The bands II ( $\sim 487$  nm) should be from the Ba(5) center. The band III ( $\sim 505$  nm) belongs to the excitation bands of the Ba(4) center. And the band IV ( $\sim 532$  nm) and band V ( $\sim 577$  nm) are attributed to the  $\text{Eu}^{2+}$  ion in Ba(1) and Ba(3), respectively.” should be changed to “Considering these data, it is reasonable to speculate that the band I ( $\sim 471$  nm) corresponds to Ba(3). The bands II ( $\sim 487$  nm) should be from the Ba(1) center. The band III ( $\sim 505$  nm) belongs to the excitation bands of the Ba(4) center. And the band IV ( $\sim 532$  nm) and band V ( $\sim 577$  nm) are attributed to the  $\text{Eu}^{2+}$  ion in Ba(5) and Ba(2), respectively.”