

# Accepted Manuscript

A novel reddish-orange fluorapatite phosphor,  $\text{La}_{6-x}\text{Ba}_4(\text{SiO}_4)_6\text{F}_2: x\text{Sm}^{3+}$  -  
Structure, luminescence and energy transfer properties

Huan Ye, Mingyue He, Tianshuai Zhou, Qingfeng Guo, Jialei Zhang, Libing Liao, Lefu Mei, Haikun Liu, Marcin Runowski

PII: S0925-8388(18)31739-0

DOI: [10.1016/j.jallcom.2018.05.060](https://doi.org/10.1016/j.jallcom.2018.05.060)

Reference: JALCOM 46033

To appear in: *Journal of Alloys and Compounds*

Received Date: 27 March 2018

Revised Date: 3 May 2018

Accepted Date: 5 May 2018

Please cite this article as: H. Ye, M. He, T. Zhou, Q. Guo, J. Zhang, L. Liao, L. Mei, H. Liu, M.

Runowski, A novel reddish-orange fluorapatite phosphor,  $\text{La}_{6-x}\text{Ba}_4(\text{SiO}_4)_6\text{F}_2: x\text{Sm}^{3+}$  - Structure, luminescence and energy transfer properties, *Journal of Alloys and Compounds* (2018), doi: 10.1016/j.jallcom.2018.05.060.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**A novel reddish-orange fluorapatite phosphor,  $\text{La}_{6-x}\text{Ba}_4(\text{SiO}_4)_6\text{F}_2: x\text{Sm}^{3+}$  -  
structure, luminescence and energy transfer properties**

Huan Ye,<sup>a</sup> Mingyue He,<sup>\*a</sup> Tianshuai Zhou,<sup>b</sup> Qingfeng Guo,<sup>\*a</sup> Jiale Zhang,<sup>a</sup> Libing Liao,<sup>\*b</sup> Lefu

Mei,<sup>b</sup> Haikun Liu,<sup>b</sup> Marcin Runowski<sup>c</sup>

<sup>a</sup>*School of Gemology, China University of Geosciences, Beijing 100083, China. Jewelry and  
mineral materials Laboratory of experimental teaching demonstration center, Beijing.*

<sup>b</sup>*Beijing Key Laboratory of Materials Utilization of Nonmetallic Minerals and Solid Wastes,  
National Laboratory of Mineral Materials. School of Materials Sciences and Technology, China  
University of Geosciences, Beijing 100083, China*

<sup>c</sup>*Adam Mickiewicz University, Faculty of Chemistry, Department of Rare Earths, Umultowska  
89b, 61-614 Poznań, Poland*

---

<sup>\*\*</sup> Corresponding Authors

**Mingyue He**, E-mail: hemy@cugb.edu.cn;

**Qingfeng Guo**, E-mail: qfguo@cugb.edu.cn;

**Libing Liao**, E-mail: clayl@cugb.edu.cn;

Download English Version:

<https://daneshyari.com/en/article/7991166>

Download Persian Version:

<https://daneshyari.com/article/7991166>

[Daneshyari.com](https://daneshyari.com)