RETRACTION NOTE

Retraction Note to: Fabrication and characterization of $\text{Mg}_3\text{Y}_2\text{Ga}_3\text{O}_{12}:\text{Bi}^{3+}/\text{TiO}_2$ -based UV fluorescent composition for improving the heavy oil viscosity reduction

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Published online: 13 May 2020
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Retraction note to:

Applied Physics A (2019) 125:342

<https://doi.org/10.1007/s00339-019-2628-3>

The authors have retracted this article [1] because the subject matter of this study was $\text{CaY}_2\text{Ge}_3\text{O}_{10}:\text{Bi}^{3+}$ not $\text{Mg}_3\text{Y}_2\text{Ga}_3\text{O}_{12}:\text{Bi}^{3+}$ as stated in the title and throughout the paper, which invalidates the figures and conclusions presented in the article. This error has been confirmed by the authors who have supplied the figure of the XRD pattern of $\text{CaY}_2\text{Ge}_3\text{O}_{10}$ which is different from Fig. 1 in the original paper. Figure 2 in the original paper shows the SEM–EDX image which is incorrect as the material in the original paper is stated to be composed of Mg, Y, Ga, O and Bi, but the actual composition is Ca, Y, Ge, O and Bi. Therefore, the conclusions of this article are incorrect. Author Peizhang Xie has stated on behalf of all co-authors that they agree to this retraction.

Reference

1. P. Xie, X. Wang, M. Liu, Fabrication and characterization of $\text{Mg}_3\text{Y}_2\text{Ga}_3\text{O}_{12}:\text{Bi}^{3+}/\text{TiO}_2$ -based UV fluorescent composition for improving the heavy oil viscosity reduction. *Appl. Phys. A* **125**, 342 (2019). <https://doi.org/10.1007/s00339-019-2628-3>

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

The original article can be found online at <https://doi.org/10.1007/s00339-019-2628-3>.

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