Editorial expression of concern on intermediate Ce^{3+} defect level induced photoluminescence and third-order nonlinear optical effects in $\text{TiO}_2\text{-CeO}_2$ nanocomposites by S. Divya, V. P. N. Nampoory, P. Radhakrishnan, and A. Mujeeb

Thomas Lippert¹

Published online: 18 May 2017
© Springer-Verlag Berlin Heidelberg 2017

This comment refers to the article available at: [10.1007/s00339-013-8134-0](https://doi.org/10.1007/s00339-013-8134-0).

After publication of this article (Divya et al. 2014), a reader alerted the Editor-in-Chief of *Applied Physics A* that there were concerns regarding some of the data reported in the paper.

Fig. 7 Open aperture Z scan of different nanocomposite compositions at 326 MW/cm^2 . Solid line represents the theoretical curve

✉ Thomas Lippert
thomas.lippert@psi.ch

¹ Paul Scherrer Institut, PSI, Thin Films and Interfaces Group, 5232 Villigen, Switzerland

The data reported in Figs. 7 and 9 refer to $\text{TiO}_2\text{-CeO}_2$ in this paper.

The figures can be found below.

However, identical plots with superimposable data points are used to describe two different materials in three different papers published in the Journals Optics and Laser Technology [1], Chin. Phys. B [2], and Optical Materials 37 (2014) 433–438 [3].

Despite the efforts made to obtain an explanation and clarification from the author, the Editor-in-Chief maintains doubts regarding the reliability of the data. Readers are urged to take caution when interpreting the content and conclusions of this article.

Fig. 9 Optical limiting response of the nanocomposites at 196 MW/cm^2

The International School of Photonics, Cochin University of Science and Technology has been informed, and we hope that they will conduct a full investigation into the matter.

References

1. S. Divya, Indu Sebastian, V.P.N. Nampoori, P. Radhakrishnan, A. Mujeeb, Opt. Laser Technol. **56**, 207–210 (2014)
2. S. Divya, V.P.N. Nampoori, P. Radhakrishnan, A. Mujeeb, Chin. Phys. B **23**, 084203 (2014)
3. S. Divya, Indu Sebastian, V.P.N. Nampoori, P. Radhakrishnan, A. Mujeeb, Opt. Mater. **37**, 433–438 (2014)