




Retraction Note

Retraction Note: Synthesis, structural and optical characterizations of ZrO₂-bromothymol blue nanocomposite thin-film [ZrO₂+BTB]^C and its application: experimental and TDD-DFT computations

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The Editor-in-Chief has retracted this article after irregularities were noted in the SEM image reported in Fig. 6b:

There is evidence of a potential splice and internal duplication within this image.

Part of this image appears highly similar to an SEM image included in a paper published shortly after this one with common authors [1]. In that paper, the image represents a different material captured at a different magnification.

The Editor-in-Chief no longer has confidence in the reliability of the data reported.

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The original article can be found online at <https://doi.org/10.1007/s10854-022-08869-4>.

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and Ahmed Al-Hossainy disagree with this retraction. The remaining authors did not respond to correspondence from the publisher about this retraction.

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Reference

1. M.H. Abdel-Aziz, H.A. Maddah, M.Sh. Zoromba, A.F. Al-Hossainy, One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications. *Alex. Eng. J.* **66**, 475–488 (2023). <https://doi.org/10.1016/j.aej.2022.11.013>