

Cite this: *J. Mater. Chem. A*, 2025, 13, 8892

Retraction: Selective synthesis of α -Fe₂O₃ thin films and effect of the deposition temperature and lattice oxygen on the catalytic combustion of propene

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DOI: 10.1039/d5ta90059j

rsc.li/materials-a

Retraction of 'Selective synthesis of α -Fe₂O₃ thin films and effect of the deposition temperature and lattice oxygen on the catalytic combustion of propene' by Patrick Mountapmbeme Kouotou *et al.*, *J. Mater. Chem. A*, 2013, 1, 10495–10504, <https://doi.org/10.1039/C3TA11354J>

The Royal Society of Chemistry, after correspondence with and knowledge of the authors, hereby wholly retracts this *Journal of Materials A* article due to concerns with the reliability of the XRD/EDS data.

In Fig. 1 there is duplication in the noise patterns between the red (450 °C) and black (400 °C) XRD traces. There are also irregularities in the appearance of the blue (350 °C) line. In addition, sections of the red and black XRD patterns in Fig. 1 are duplicated in another publication by Kouotou *et al.*,¹ but representing different experimental conditions.

In Fig. 4 there is duplication across the three EDS spectra.

The authors have provided corrected figures from the original data but have not been able to satisfactorily address the concerns. Given the significance of the concerns about the data, the findings presented in this paper are no longer reliable.

The authors have been informed of the retraction of this article.

Patrick Mountapmbeme Kouotou has acknowledged the retraction but does not wish to sign the notice.

Zhen-Yu Tian wishes to state that he was involved in designing the experimental conditions, improving the explanation and revising the context, but he was not involved in taking and evaluating the XRD/EDS data as well as drawing the figures. He has acknowledged the retraction but does not wish to sign the notice.

Katharina Kohse-Höinghaus wishes to state that she was not involved in the acquisition and evaluation of the XRD and EDS data. She has acknowledged the retraction but does not wish to sign the notice.

André Beyer, Armin Götzhäuser and Henning Vieker wish to state that their research group and their laboratory were not involved in taking nor evaluating the XRD and EDS data. They acknowledged the retraction but do not wish to sign the notice.

Signed: Michaela Mühlberg, Executive Editor, *Journal of Materials A*

Date: 3rd March 2025

References

- 1 P. M. Kouotou, Z.-Y. Tian, H. Vieker and K. Kohse-Höinghaus, *Surf. Coat. Technol.*, 2013, **203**, 59–65.

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