



Cite this: *Chem. Commun.*, 2025, 61, 2140

## Retraction: Visible-light driven reaction of CO<sub>2</sub> with alcohols using a Ag/CeO<sub>2</sub> nanocomposite: first photochemical synthesis of linear carbonates under mild conditions

Anil Malik,<sup>ab</sup> Sakshi Bhatt,<sup>ab</sup> Aishwarya Soni,<sup>a</sup> Praveen K. Khatri,<sup>a</sup> Ankur K. Guha,<sup>c</sup> Lakshi Saikia<sup>d</sup> and Suman L. Jain<sup>\*a</sup>

DOI: 10.1039/d4cc90452d

rsc.li/chemcomm

Retraction of 'Visible-light driven reaction of CO<sub>2</sub> with alcohols using a Ag/CeO<sub>2</sub> nanocomposite: first photochemical synthesis of linear carbonates under mild conditions' by Anil Malik et al., *Chem. Commun.*, 2023, 59, 1313–1316, <https://doi.org/10.1039/D2CC05152D>.

The Royal Society of Chemistry hereby wholly retracts this *Chemical Communications* article due to concerns with the reliability of the NMR spectra reported in the supporting information.

The <sup>13</sup>C NMR spectra in Fig. S19, S21, S23 and S25 contain identical baselines, but different labelling of peaks.

The <sup>1</sup>H NMR spectra in Fig. S20, S22, S24 and S26 appear to be identical in the region 0–3.5 ppm, but peaks outside of this region have been added or removed across the spectra.

The <sup>13</sup>C NMR spectra in Fig. S27 and S29 contain identical baselines, but different labelling of peaks.

The <sup>1</sup>H NMR spectra in Fig. S28 and S30 are identical with the exception of a peak labelled (d) that has been added into the Fig. S30 spectrum.

The <sup>13</sup>C NMR spectra in Fig. S31 and S35 contain identical baselines but different peaks.

The <sup>1</sup>H NMR spectra in Fig. S32 and S36 appear to be identical in the region 0–3.5 ppm, but peaks outside of this region have been added or removed across the spectra.

Given the significance of the concerns regarding the integrity of the NMR data, the findings presented in this paper are no longer reliable.

All authors were informed about the retraction. Suman L. Jain accepts the decision to retract. The following authors requested to include the following statements regarding their contributions, but did not state whether they agree or disagree with the decision to retract. The other authors did not respond.

Anil Malik was involved in the experimental work, product characterization and preparation of the supporting information file.

Sakshi Bhatt's contribution was only related to the material preparation and its characterization. They were not involved in preparing, analysing or presenting the NMR spectra while preparing the manuscript.

Lakshi Saikia and Ankur K. Guha were only involved in the theoretical analysis of the work, and were not involved in any experimental work.

Richard Kelly, Executive Editor, *Chemical Communications*

12<sup>th</sup> December 2024

<sup>a</sup> Chemical & Material Sciences Division, CSIR-Indian Institute of Petroleum, Haridwar Road, Mohkampur, Dehradun-248005, India. E-mail: [suman@iip.res.in](mailto:suman@iip.res.in);

Fax: +91 1352525788; Tel: +91 1352525788

<sup>b</sup> Academy of Scientific and Innovative Research, Ghaziabad-201002, India

<sup>c</sup> Department of Chemistry, Cotton University, Guwahati-781001, Assam, India

<sup>d</sup> Advanced Materials Group, Materials Sciences & Technology Division, CSIR-NEIST, Jorhat-785006, Assam, India

