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Correction: Oxygen vacancy enhanced catalytic activity in a Pt nanoparticle decorated GO–Ce_xO_y catalyst for the efficient synthesis of pyran based derivatives

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Correction for 'Oxygen vacancy enhanced catalytic activity in a Pt nanoparticle decorated GO–Ce_xO_y catalyst for the efficient synthesis of pyran based derivatives' by Pratap S. Nayak *et al.*, *New J. Chem.*, 2023, 47, 13004–13015, <https://doi.org/10.1039/D3NJ00605K>.

The authors regret any confusion regarding the representation of thick lines in the XRD plots for Ce_xO_y and Ce_xO_y–Pt in Fig. 1; they have employed XPert High Score Plus software to analyse the spectra which indicate that in Ce_xO_y the peak at 38° could potentially be attributed to impurities linked to the material. In contrast, for Ce_xO_y–Pt, the peak around 40° is conclusively identified as being associated with Pt (JCPDS No. 01-087-0646) and not impurities, distinguishing it from the Ce_xO_y observation. Below is a version of Fig. 1 with thinner lines and a zoomed in version of this graph showing the differences.

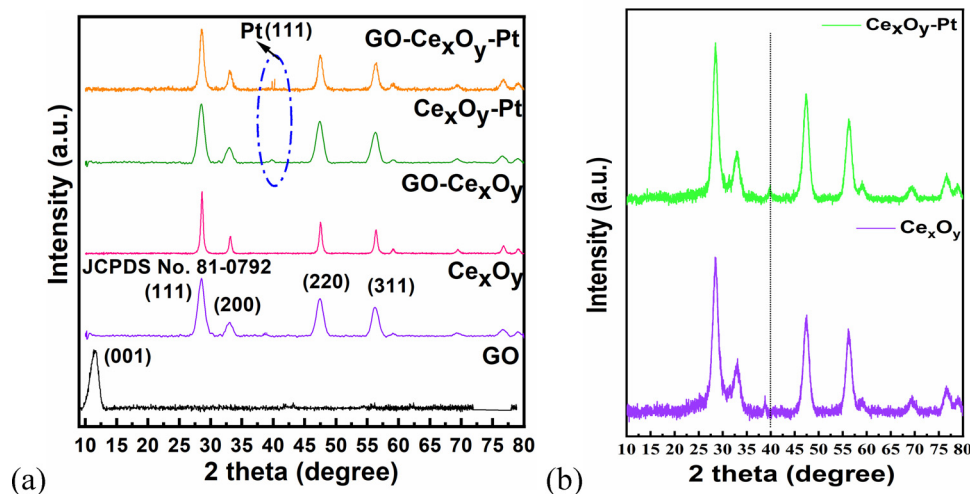


Fig. 1 (a) XRD patterns of GO, Ce_xO_y, GO–Ce_xO_y, Ce_xO_y–Pt, and GO–Ce_xO_y–Pt. (b) XRD spectra of Ce_xO_y and Ce_xO_y–Pt zoomed in.

The authors also apologise for an error in Fig. 9 as they included the O1s spectrum of graphene oxide (GO) twice instead of Ce_xO_y. The corrected Fig. 9 is given here.

An independent expert has viewed the corrected images and has concluded that they are consistent with the discussion and conclusions presented.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

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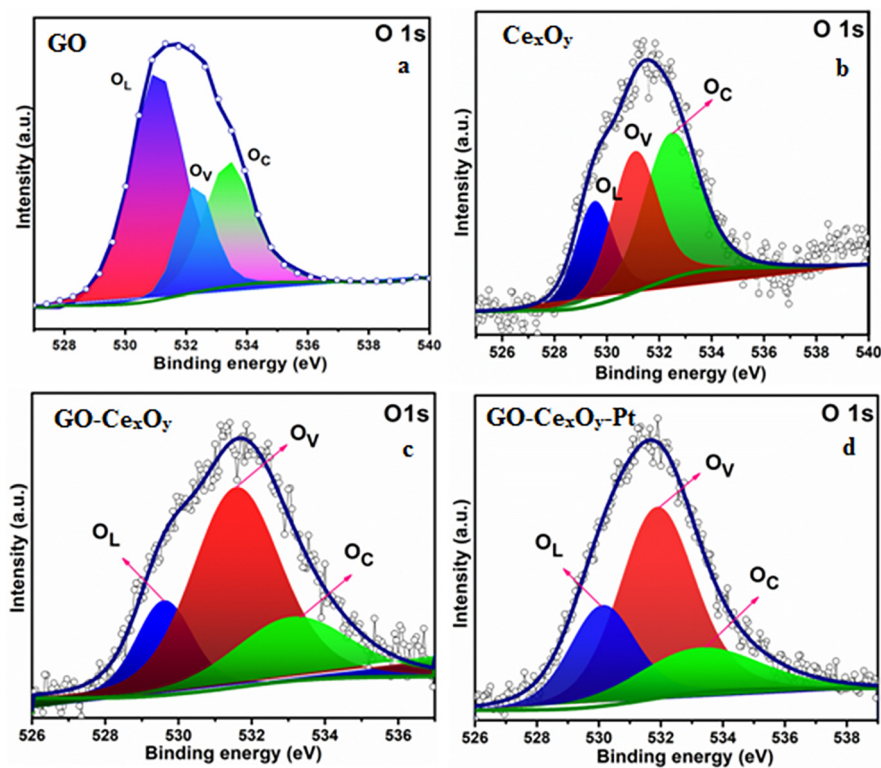


Fig. 9 (a)–(d) O1s XPS spectra of GO, Ce_xO_y , $\text{GO-Ce}_x\text{O}_y$, and $\text{GO-Ce}_x\text{O}_y\text{-Pt}$.

