

## CORRECTION

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## Correction: Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO<sub>2</sub> thermal methanation

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Correction for 'Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO<sub>2</sub> thermal methanation' by Che Yan *et al.*, *J. Mater. Chem. A*, 2020, **8**, 12744–12756, DOI: 10.1039/D0TA02957B.

The authors regret the following errors in the published article:

In the abstract (page 12744), the term 'gas chromatography-mass spectrometer' should instead have read 'gas chromatography spectrometer'. On page 12745, in the sentence beginning 'The corresponding mechanisms...', the term 'gas chromatography mass spectrometry (GC-MS)' should instead have read 'gas chromatography spectrometer (GC)'.

The unit 'mmol' was used erroneously throughout; all 20 instances of this term in the text should instead have read 'μmol'. Moreover, on page 12750, in the sentence beginning 'As for CH<sub>4</sub> production...', the text '1905.1 g<sub>catalyst</sub><sup>−1</sup>' should instead have read '1905.1 μmol g<sub>catalyst</sub><sup>−1</sup>'.

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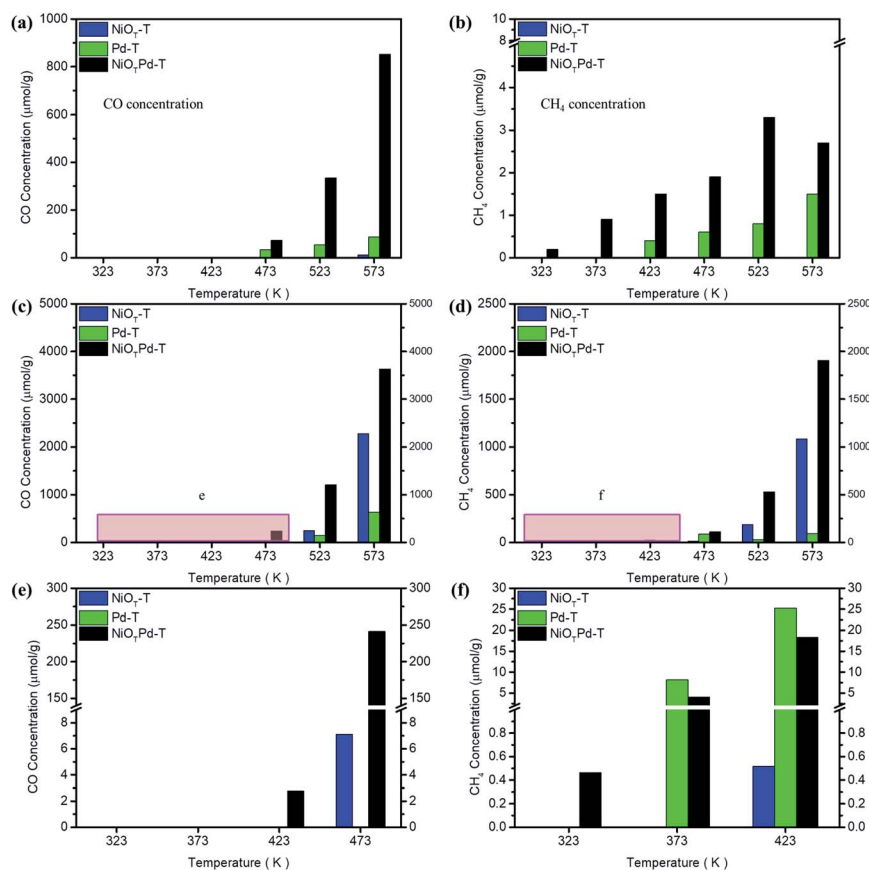
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**Fig. 3** The gas chromatography (GC) determined CO<sub>2</sub>RR results for the NiO<sub>x</sub>T-Pd-T and control samples (NiO<sub>x</sub>T-T and Pd-T) for (a) CO and (b) CH<sub>4</sub> production yield in pure ambient CO<sub>2</sub>. Results for CO and CH<sub>4</sub> production yield in reaction gas (CO<sub>2</sub> + 3H<sub>2</sub>) are respectively demonstrated in (c) and (d). The regions marked by pink rectangles e and f are respectively shown in (e) and (f) for clarity. The GC measurements are conducted under a pressure of near 1 atm from 323 K to 573 K and the concentration is normalized by loading of catalysts (μmol g<sub>catalyst</sub><sup>-1</sup>).

In Fig. 3, the unit 'mmol' on the y-axis labels should instead have read 'μmol'; a corrected version of the figure is provided below. Furthermore, in the Fig. 3 caption, the phrase 'pure ambient CO' should instead have read 'pure ambient CO<sub>2</sub>'.

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

