## Journal of Materials Chemistry A



## CORRECTION

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Cite this: J. Mater. Chem. A, 2020, 8, 19058

## 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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DOI: 10.1039/d0ta90205e

rsc.li/materials-a

Correction for 'Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance  $CO_2$  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 ' $\mu$ mol'. Moreover, on page 12750, in the sentence beginning 'As for CH<sub>4</sub> production...', the text '1905.1  $g_{catalyst}^{-1}$ ' should instead have read '1905.1  $\mu$ mol  $g_{catalyst}^{-1}$ '.

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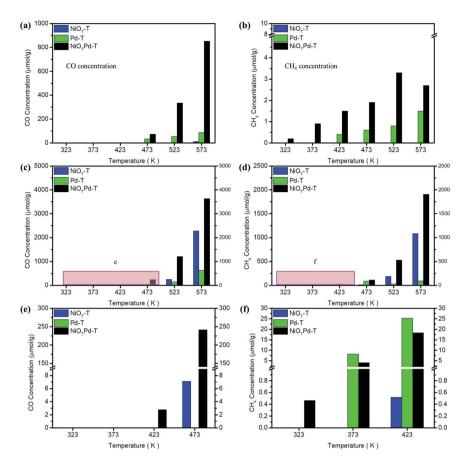


Fig. 3 The gas chromatography (GC) determined  $CO_2RR$  results for the  $NiO_TPd-T$  and control samples ( $NiO_T-T$  and Pd-T) for (a) CO and (b)  $CH_4$ production yield in pure ambient CO<sub>2</sub>. Results for CO and CH<sub>4</sub> production yield in reaction gas (CO<sub>2</sub> + 3H<sub>2</sub>) 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 ( $\mu$ mol  $g_{catalyst}^{-1}$ ).

In Fig. 3, the unit 'mmol' on the y-axis labels should instead have read 'mmol'; 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.