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CORRECTION

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Correction: Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO₂ thermal methanation

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Correction for 'Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO₂ thermal methanation' by Che Yan *et al.*, *J. Mater. Chem. A*, 2020, **8**, 12744–12756. DOI: 10.1039/D0TA02957B.

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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 ' μ mol'. Moreover, on page 12750, in the sentence beginning 'As for CH₄ production...', the text '1905.1 g_{catalyst}⁻¹' should instead have read '1905.1 μ mol g_{catalyst}⁻¹'.

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Fig. 3 The gas chromatography (GC) determined CO₂RR results for the NiO_TPd-T and control samples (NiO_T-T and Pd-T) for (a) CO and (b) CH₄ production yield in pure ambient CO₂. Results for CO and CH₄ production yield in reaction gas (CO₂ + 3H₂) 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 (μ mol g_{catalyst}⁻¹).

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 CO₂'. The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

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