Journal of Materials Chemistry A

CORRECTION

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_2 thermal methanation

Che Yan,[a] Chia-Hsin Wang,*[b] Moore Lin,[c] Dinesh Bhalothia,[a] Shou-Shiun Yang,[a] Gang-Jei Fan,[c] Jia-Lin Wang,[c] Ting-Shan Chan,[b] Yao-lin Wang,[d] Xin Tu,[d] Sheng Dai,[e] Kuan-Wen Wang,[f] Jr-Hau He[g] and Tsan-Yao Chen*[ahi]

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 'μmol'. Moreover, on page 12750, in the sentence beginning 'As for CH_4 production…', the text '1905.1 $g_{catalyst}^{-1}$' should instead have read '1905.1 μmol $g_{catalyst}^{-1}$'.

[a]*Department of Engineering and System Science, National Tsing Hua University, Hsinchu 30013, Taiwan. E-mail: chencaeser@gmail.com; Tel: +886-3-5715131#34271*
[b]*National Synchrotron Radiation Research Center, Hsinchu 30076, Taiwan*
[c]*Department of Chemistry, National Central University, Taoyuan 32001, Taiwan*
[d]*Department of Electrical Engineering and Electronics, University of Liverpool, Liverpool L69 3GJ, UK*
[e]*School of Chemistry & Molecular Engineering, East China University of Science and Technology, Shanghai 200237, P. R. China*
[f]*Institute of Materials Science and Engineering, National Central University, Taoyuan City 32001, Taiwan*
[g]*Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong*
[h]*Institute of Nuclear Engineering and Science, National Tsing Hua University, Hsinchu 30013, Taiwan*
[i]*Hierarchical Green-Energy Materials (Hi-GEM) Research Centre, National Cheng Kung University, Tainan 70101, Taiwan*

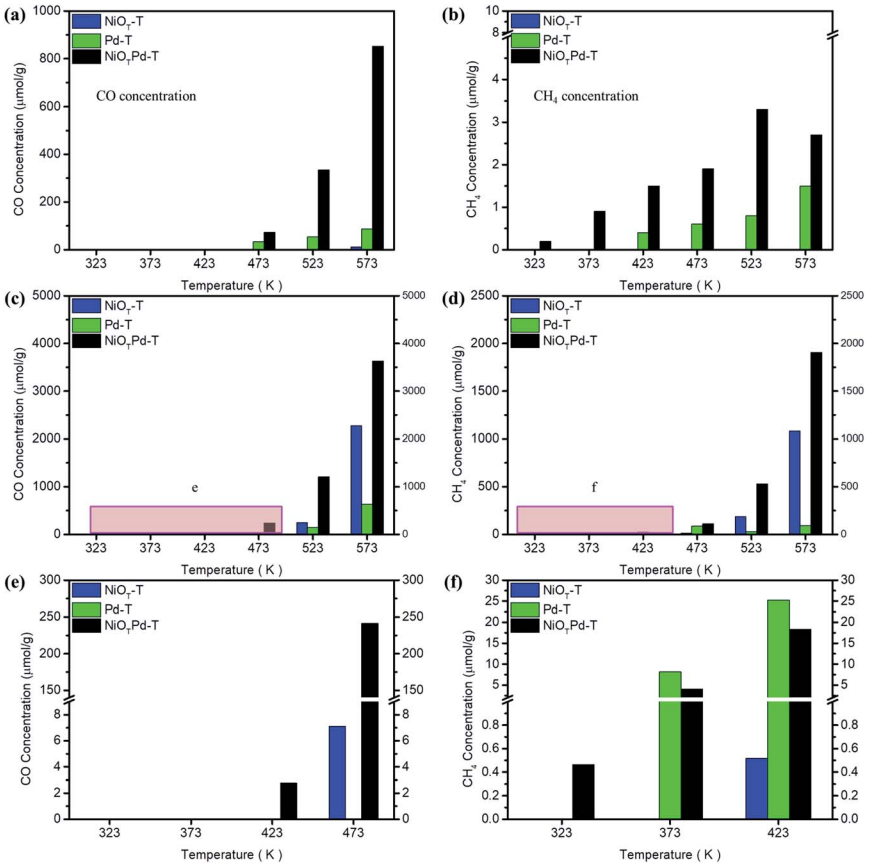

Fig. 3 The gas chromatography (GC) determined CO_2RR results for the NiO$_T$Pd-T and control samples (NiO$_T$-T and Pd-T) for (a) CO and (b) CH_4 production yield in pure ambient CO_2. Results for CO and CH_4 production yield in reaction gas (CO_2 + $3H_2$) are respectively demonstrated in (c) and (d). 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 $g_{catalyst}^{-1}$).

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 CO_2'.

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