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Correction and removal of expression of concern: Palladium supported on mixed-metal-organic framework (Co-Mn-MOF-74) for efficient catalytic oxidation of CO

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Correction and removal of expression of concern for 'Palladium supported on mixed-metal-organic framework (Co-Mn-MOF-74) for efficient catalytic oxidation of CO' by Reda S. Salama *et al.*, *RSC Adv.*, 2021, **11**, 4318–4326, <https://doi.org/10.1039/D0RA09970H>.

The authors regret that the original XRD measurements and figures had a high signal-to-noise ratio, which resulted in excessive smoothing of the data. The authors have now repeated the experiments, and have provided the replacement figures here:

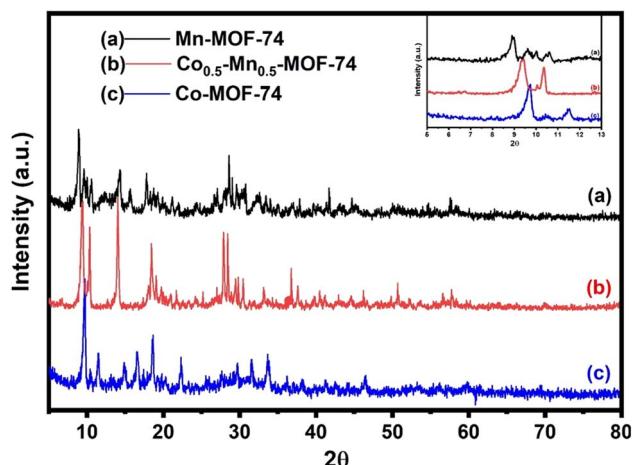


Fig. 1 XRD patterns of monometallic and bimetallic MOF-74.

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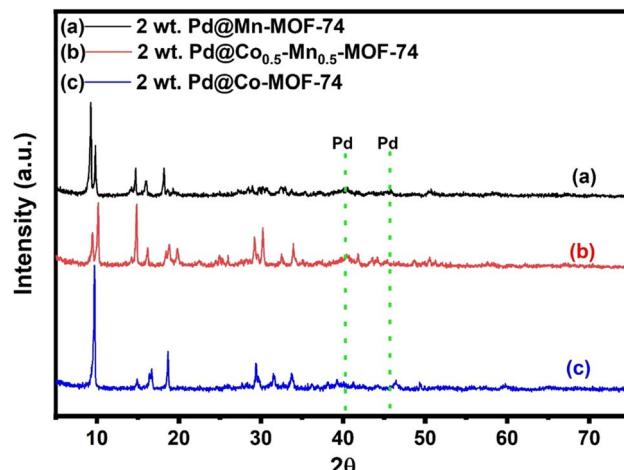


Fig. 2 XRD patterns of 2 wt% Pd NPs loaded on (a) Mn-MOF-74, (b) Co_{0.5}-Mn_{0.5}-MOF-74 and (c) Co-MOF-74.

The measurements for peaks at 2θ are adjusted slightly, and the text in section 3.1 X-ray diffraction pattern (XRD) should be:

Mn-MOF-74 shows characteristic peaks at 2θ equal 8.5, 9.6, 10.4, 11.9, 14.2, 15.5, 17.9, 19.6, 21.2, 27.1, 28.6, 30.6, 32.5, 37.6, 41.7, 54.3, and 57.5°. On the other hand, XRD patterns of Co-MOF-74 were recognized at 2θ equal 9.5, 10.2, 11.4, 14.7, 16.4, 18.4, 26.8, 29.5, 31.6, 33.4, 37.8, 46.5, and 59.6°, which were almost identical to the previously reported XRD pattern of Mn-MOF-74,^{41–43} and Co-MOF-74,^{44–46} respectively.

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

This correction supersedes the information provided in the Expression of Concern related to this article.

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