

## RETRACTION

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[View Journal](#) | [View Issue](#)Cite this: *J. Mater. Chem. A*, 2022, 10, 20647**Retraction: Improved H<sub>2</sub>O<sub>2</sub> photogeneration and stability on rational tailored polymeric carbon nitride *via* enhanced O<sub>2</sub> adsorption**Zehao Li,<sup>\*a</sup> Tianxiang Chen,<sup>b</sup> Yufei Chen,<sup>a</sup> Xiaoyuan Chen,<sup>a</sup> Le Li,<sup>a</sup> Siya Kuang,<sup>a</sup> Jing Gao,<sup>a</sup> Yuxuan Guo,<sup>a</sup> Tsz Woon Benedict Lo<sup>b</sup> and Jimin Du<sup>\*a</sup>

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[rsc.li/materials-a](https://rsc.li/materials-a)Retraction of 'Improved H<sub>2</sub>O<sub>2</sub> photogeneration and stability on rational tailored polymeric carbon nitride *via* enhanced O<sub>2</sub> adsorption' by Zehao Li *et al.*, *J. Mater. Chem. A*, 2022, 10, 15051–15061, <https://doi.org/10.1039/D2TA03580D>.

We, the named authors, hereby wholly retract this *Journal of Materials Chemistry A* article. This article reports a Rb<sup>+</sup>-modified PCN photocatalyst (CNR-0.5) for highly-efficient H<sub>2</sub>O<sub>2</sub> production. Recently, when we repeated the photocatalytic decomposition of H<sub>2</sub>O<sub>2</sub> for CN and CNR-0.5 under LED white light, we were unable to reproduce the results in the article. By testing the retained solution from previous experiments published in the article, it was found that the solution contained other ions, which may have led to wrong results in the paper. We further looked into this and noticed that the water purifier was faulty which led to the presence of additional ions in the reaction solution. We, as the authors of this *Journal of Materials Chemistry A* article, wish to retract this article.

Signed: Zehao Li, Tianxiang Chen, Yufei Chen, Xiaoyuan Chen, Le Li, Siya Kuang, Jing Gao, Yuxuan Guo, Tsz Woon Benedict Lo and Jimin Du.

Date: 8th August 2022.

Retraction endorsed by Michaela Mühlberg, Executive Editor, *Journal of Materials Chemistry A*.

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