

RETRACTION

[View Article Online](#)
[View Journal](#) | [View Issue](#)Cite this: *J. Mater. Chem. A*, 2022, 10, 20647**Retraction: Improved H₂O₂ photogeneration and stability on rational tailored polymeric carbon nitride *via* enhanced O₂ adsorption**Zehao Li,^{*a} Tianxiang Chen,^b Yufei Chen,^a Xiaoyuan Chen,^a Le Li,^a Siya Kuang,^a Jing Gao,^a Yuxuan Guo,^a Tsz Woon Benedict Lo^b and Jimin Du^{*a}

DOI: 10.1039/d2ta90205b

rsc.li/materials-aRetraction of 'Improved H₂O₂ photogeneration and stability on rational tailored polymeric carbon nitride *via* enhanced O₂ 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⁺-modified PCN photocatalyst (CNR-0.5) for highly-efficient H₂O₂ production. Recently, when we repeated the photocatalytic decomposition of H₂O₂ 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*.

^aSchool of Chemistry and Chemical Engineering, Anyang Normal University, Anyang 455000, China. E-mail: zehaoli512@qq.com; djm@iccas.ac.cn

^bState Key Laboratory of Chemical Biology and Drug Discovery, Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hungghom, Hong Kong, China

