

RETRACTION

View Article Online

View Journal | View Issue



Cite this: *Inorg. Chem. Front.*, 2019, **6**, 2566

Retraction: A layered double hydroxide assembled on a g-C₃N₄-modified hollow carbon sphere as an adsorbent for the removal of uranium(vi)

Xiaoyu Yuan,^{a,b,c} Xiaoyan Jing,^a Jing Yu,^{*a,c} Hongsen Zhang,^{a,c} Rongrong Chen,^{a,c,d} Shouzheng Su,^{c,e} Qi Liu,^{a,c,f} Milin Zhang^{a,g} and Jun Wang^{*a,c,d,f}

DOI: 10.1039/c9qi90033k

rsc.li/frontiers-inorganic

Retraction of 'A layered double hydroxide assembled on a g-C₃N₄-modified hollow carbon sphere as an adsorbent for the removal of uranium(vi)' by Xiaoyu Yuan et al., *Inorg. Chem. Front.*, 2019, DOI: 10.1039/c9qi00590k.

We, the named authors, hereby wholly retract this *Inorganic Chemistry Frontiers* article to maintain the accuracy of the scientific record and avoid misleading readers.

After careful re-examination of the article, we found that the current analysis of the U(vi) adsorption mechanism does not explain clearly the interactions between C₃N₄ and LDH and their role in U(vi) adsorption. Synchrotron radiation has been considered as an efficient method to analyze the adsorption mechanism, however, it is difficult for us to perform synchrotron radiation tests according to our current conditions.

In addition, Fig. 1b and f were previously published in our *Scientific Reports* paper,¹ as Fig. S1b and 1d respectively, but the original source was not referenced. Fig. 1b was previously published as the TEM image of SiO₂@RF; it was reused by mistake in this article for a different composite, SiO₂@M-RFP. Fig. 1d was used for the same structure as in Ref. 1; a designation that is different from before was given to the composite in this article.

Given these issues, we have concluded that the published data do not accurately support the conclusions of the article.

Signed: Xiaoyu Yuan, Xiaoyan Jing, Jing Yu, Hongsen Zhang, Rongrong Chen, Shouzheng Su, Qi Liu, Milin Zhang and Jun Wang, 10th August 2019.

Retraction endorsed by Wenjun Liu, Executive Editor, *Inorganic Chemistry Frontiers*.

References

- 1 X. Yuan, C. Yin, Y. Zhang, Z. Chen, Y. Xu and J. Wang, *Sci. Rep.*, 2019, **9**, 5807.

^aKey Laboratory of Superlight Material and Surface Technology, Ministry of Education, Harbin Engineering University, 150001, PR China. E-mail: zhqw1888@sohu.com, jing.yu@hrbeu.edu.cn

^bCollege of Materials and Chemical Engineering, Heilongjiang Institute of Technology, Harbin 150050, China

^cCollege of Materials Science and Chemical Engineering, Harbin Engineering University, Harbin 150001, China

^dInstitute of Advanced Marine Materials, Harbin Engineering University, 150001, China

^eCollege of Nuclear Science and Technology, Harbin Engineering University, 150001, P. R. China

^fHarbin Engineering University Capital Management Co. Ltd, Harbin 150001, China

^gCollege of Science, Heihe University, Heihe 164300, China

