



Cite this: *Chem. Commun.*, 2020, 56, 1609

DOI: 10.1039/d0cc90027c

rsc.li/chemcomm

Retraction: Sublimable cationic Ir(III) phosphor using chlorine as a counterion for high-performance monochromatic and white OLEDs

Lei Ding,^a Chun-Xiu Zang,^b Hui-Ting Mao,^a Guo-Gang Shan,^{*a} Li-Li Wen,^a Hai-Zhu Sun,^{*a} Wen-Fa Xie^{*b} and Zhong-Min Su^{*ac}

Retraction of 'Sublimable cationic Ir(III) phosphor using chlorine as a counterion for high-performance monochromatic and white OLEDs' by Lei Ding *et al.*, *Chem. Commun.*, 2018, **54**, 11761–11764.

We, the named authors, hereby wholly retract this *Chemical Communications* article. In the original paper, the titled compound was characterized as the cationic Ir(III) complex because the hydrogen signal that appeared at low field nuclear magnetic resonance of 11.0 ppm was considered to result from active hydrogen (Fig. 1). However, our recent experimental data have shown that the obtained compound is a neutral Ir(III) complex confirmed by the single-crystal structure (see Fig. 2). Therefore, due to the incorrect conclusion made in the original paper, we decide to retract this article and sincerely regret any inconvenience the incorrect conclusion caused for readers.

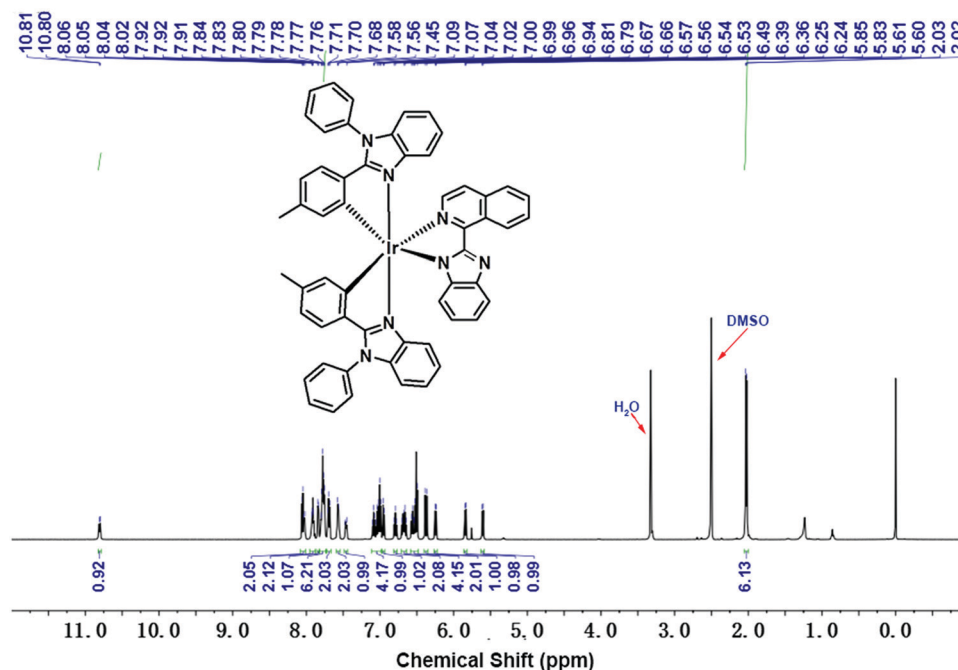


Fig. 1 Original ¹H NMR of [(ptbi)₂Ir(bisq)]Cl.

^a Institute of Functional Material Chemistry and National & Local United Engineering Lab for Power Battery, Faculty of Chemistry, Northeast Normal University, Changchun 130024, P. R. China. E-mail: shangg187@nenu.edu.cn, sunhz335@nenu.edu.cn, zmsu@nenu.edu.cn

^b State Key Laboratory on Integrated Optoelectronics, College of Electronic Science and Engineering, Jilin University, Changchun, Jilin 130012, P. R. China

^c School of Chemistry & Environmental Engineering, Changchun University of Science and Technology, Changchun, Jilin 130012, P. R. China



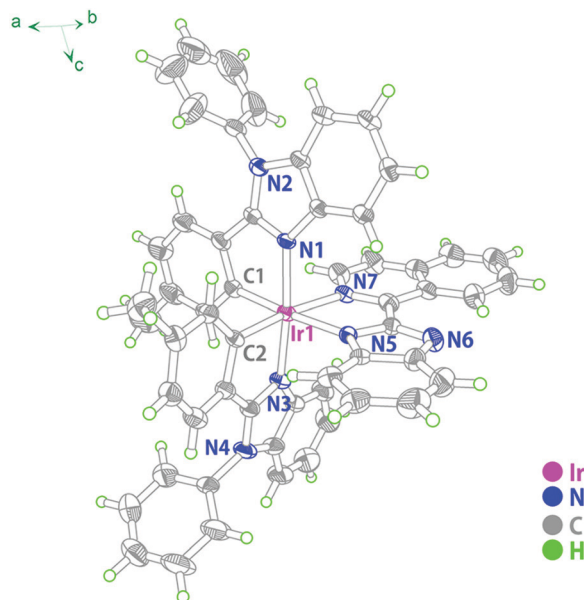


Fig. 2 Crystal structure of $(\text{ptbi})_2\text{Ir}(\text{bisq})$ with hydrogen and solvent atoms omitted to aid with clarity and ellipsoids drawn at the 50% probability level.

Signed: Lei Ding, Chun-Xiu Zang, Hui-Ting Mao, Guo-Gang Shan, Li-Li Wen, Hai-Zhu Sun, Wen-Fa Xie and Zhong-Min Su

Retraction endorsed by Richard Kelly, Executive Editor, *Chemical Communications*

