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Cover Feature: Facile Synthesis of $(C_6F_5)_2BBr$ and $(C_6F_5)_2BX(OEt_2)$ ($X=Cl, Br$) using Hydrogen Halides and Piers' Borane (Z. Anorg. Allg. Chem. 8/2023)

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Wong, Anthony
Alcántara, Gustavo
Avalos, Matthew
et al.

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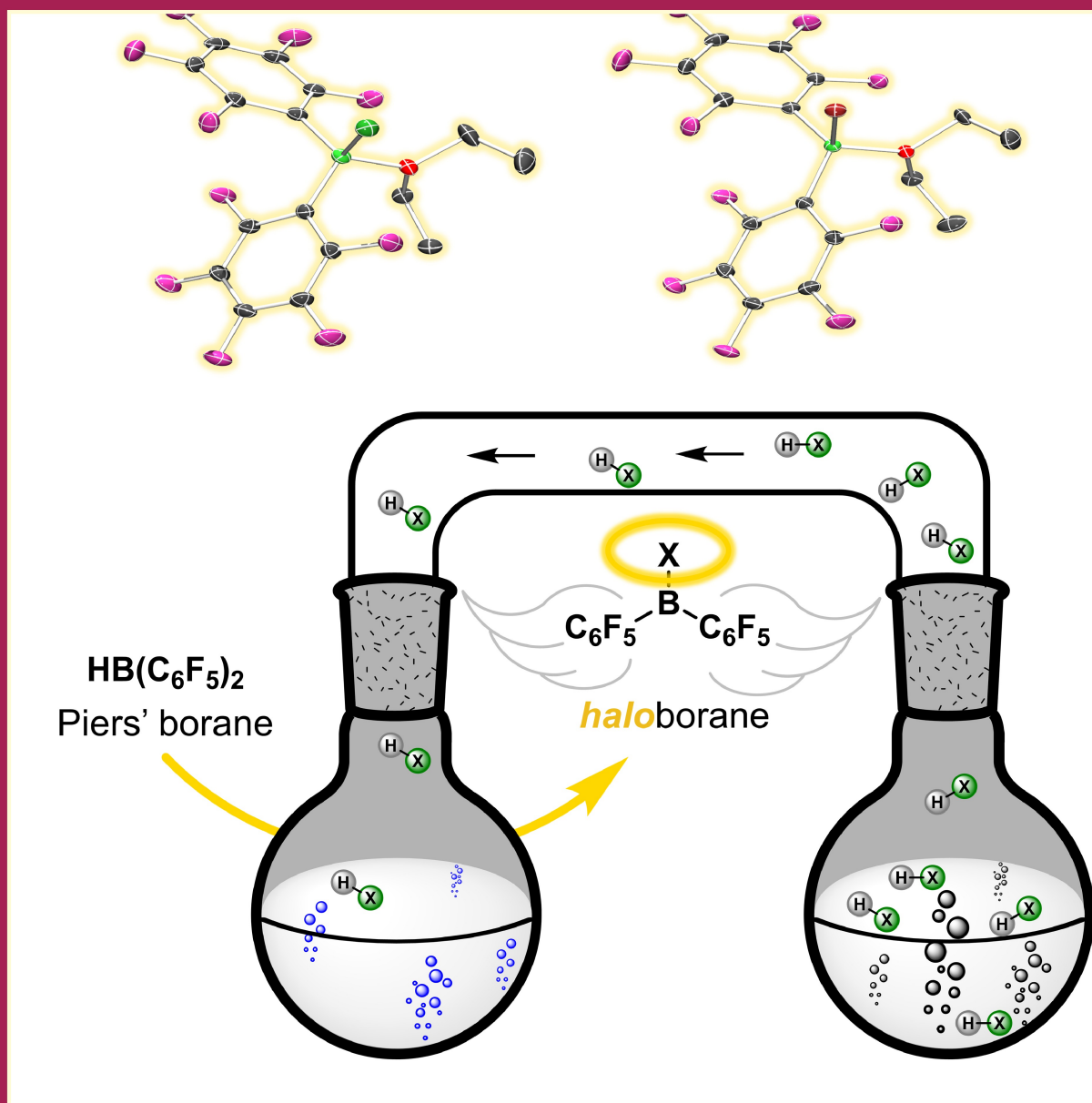
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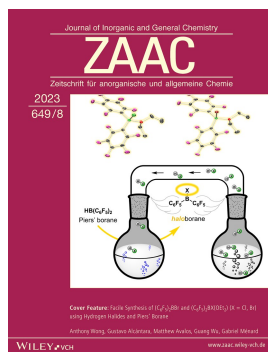


Cover Feature: Facile Synthesis of $(C_6F_5)_2BBr$ and $(C_6F_5)_2BX(OEt_2)$ ($X = Cl, Br$) using Hydrogen Halides and Piers' Borane

Anthony Wong, Gustavo Alcántara, Matthew Avalos, Guang Wu, Gabriel Ménard

TITLE

This cover picture shows the facile and efficient synthesis of common electrophilic haloboranes via a protonolysis reaction between Piers' borane, $\text{HB}(\text{C}_6\text{F}_5)_2$, and the corresponding hydrogen halides, H-X ($\text{X} = \text{Cl}, \text{Br}$), generating H_2 gas as the sole byproduct. The vacuum distillation setup shown here illustrates the in situ-generated hydrogen halide crossing a glass bridge to react with the hydridic B-H bond in Piers' borane. Preparing the tri-coordinate boranes and their etherates using this route may provide a gateway into more Lewis acid-mediated transformations. (DOI: 10.1002/zaac.202300007).



A. Wong, G. Alcántara, M. Avalos, G. Wu, G. Ménard*

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Facile Synthesis of $(\text{C}_6\text{F}_5)_2\text{BBr}$ and $(\text{C}_6\text{F}_5)_2\text{BX}(\text{OEt}_2)$ ($\text{X} = \text{Cl}, \text{Br}$) using Hydrogen Halides and Piers' Borane



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Anthony Wong
Gustavo Alcántara
Matthew Avalos
Guang Wu
Gabriel Ménard