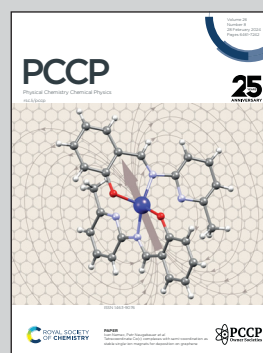


**Showcasing research from the Group of Prof. Song Zhang
at the Academy for Precision Measurement Science and
Technology, Chinese Academy of Sciences, China**

Photochemical mechanistic study of hexafluorobenzene
involving the low-lying states

This work investigates the photochemical isomerization and nonradiative decay process of hexafluorobenzene (HFB) involving the low-lying states. Our results show that HFB could isomerize to three different products in the ground state. Upon photoexcitation, both S_2 and S_1 photochemistry of HFB yield Dewar-HFB as the major product *via* conical intersections. The structure evolution of each state is explicitly described. The present work provides a foundation for understanding the photochemistry of highly fluorinated systems.

As featured in:



See Xinli Song, Song Zhang *et al.*,
Phys. Chem. Chem. Phys.,
2024, **26**, 6638.