# Comparative investigation of interactions of hydrogen, halogen and tetrel bond donors with electron-rich and electron-deficient $\pi$-systems

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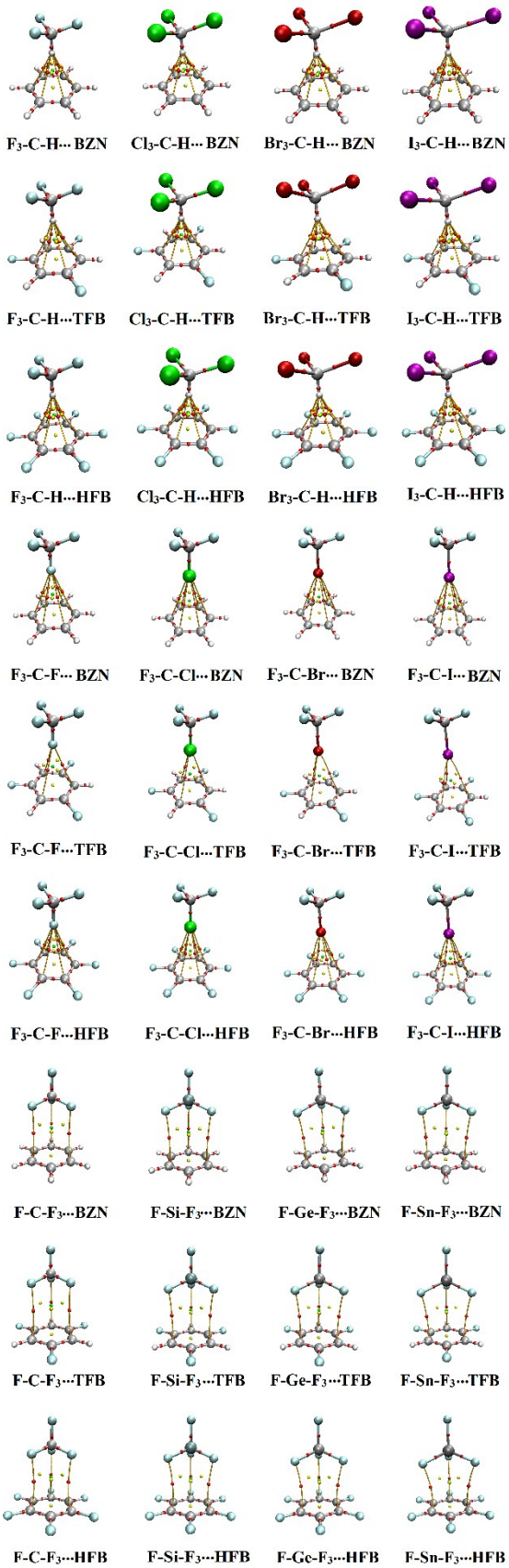


**Fig. S1.** QTAIM diagrams of $X_3$-C-H···, $F_3$-C-X··· and F-T-$F_3$···$\pi$-system (where X = F, Cl, Br and I, T = C, Si, Ge and Sn, and $\pi$-system = BNZ, TFB, and HFB) complexes. Red dots indicate the locations of bond critical points at the bond paths between the monomers at the most favorable H/σ-atom···$\pi$-system distance.

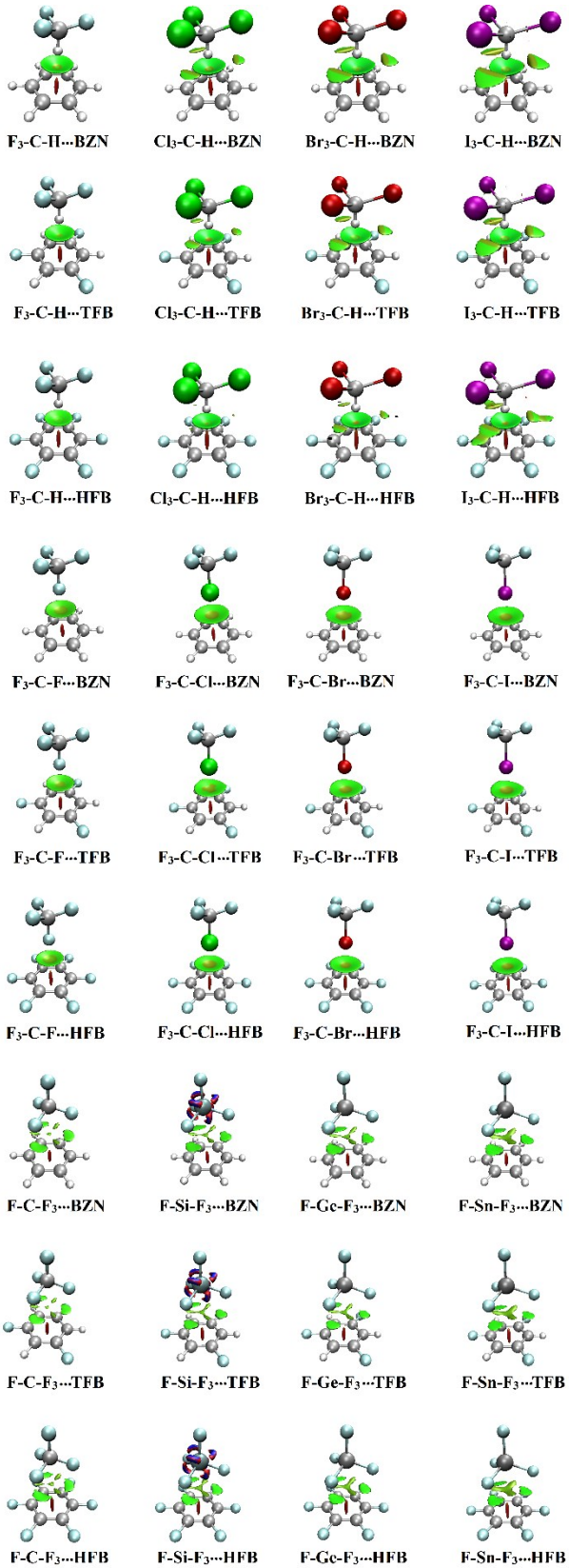


**Fig. S2.** Noncovalent interaction (NCI) diagrams of $X_3$-C-H···, $F_3$-C-X···, and F-T-$F_3$···$\pi$-system (where X = F, Cl, Br and I, T = C, Si, Ge and Sn, and $\pi$-system = BNZ, TFB, and HFB) complexes. The isosurfaces are plotted with a reduced density gradient value of 0.50 au and they are colored from blue to red according to sign($\lambda_2$)$\rho$ ranging from −0.035 to 0.020 au.